



Cyberscope

# Audit Report

## **Vivus Token**

April 2022

Type           BEP20

Network       BSC

Address       0x201359F468d2C8B6c0B209ba26eA13eB05a748f9

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## Contract Review

<b>Contract Name</b>	VIV
<b>Compiler Version</b>	v0.8.10+commit.fc410830
<b>Optimization</b>	200 runs
<b>Licence</b>	MIT
<b>Explorer</b>	<a href="https://bscscan.com/token/0x201359F468d2C8B6c0B209ba26eA13eB05a748f9">https://bscscan.com/token/0x201359F468d2C8B6c0B209ba26eA13eB05a748f9</a>
<b>Symbol</b>	VIV
<b>Decimals</b>	18
<b>Total Supply</b>	1,000,000,000
<b>Domain</b>	vivustoken.com

## Source Files

<b>Filename</b>	<b>SHA256</b>
<b>contract.sol</b>	f4bb783501c3cf531d0b14bb80af7428f235ba0f935a54710cbf977ed5a9241e

## Audit Updates

<b>Initial Audit</b>	13th April 2022
<b>Corrected</b>	20th April 2022
<b>Corrected</b>	28th April 2022
<b>Corrected</b>	15th May 2022



## The total supply is half of the total balances

The contract's total supply is **1,000,000,000 VIV**.

During the deployment, **1,000,000,000 VIV** were minted to the owner's address **0x9a66a737ed8d1bae7789598a0db03b4da9d48a72** and **1,000,000,000 VIV** were added to the **0x9Ab605d4A60dF5727402b03F73367FEdf760693D** address.

That means that the total supply of the contract is half of the balance's sum.

# 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
●	L04	Conformance to Solidity Naming Conventions
●	L09	Dead Code Elimination

## L04 - Conformance to Solidity Naming Conventions

**Criticality**

minor

**Location**

contract.sol#L208,210,545

### 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
_allowances
_balances
```

### Recommendation

Follow the Solidity naming convention.

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

## L09 - Dead Code Elimination

**Criticality**

minor

**Location**

contract.sol#L394

### Description

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

```
_transfer
```

### Recommendation

Remove unused functions.



# Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
<b>Context</b>	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
<b>Ownable</b>	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	External	✓	onlyOwner
	transferOwnership	External	✓	onlyOwner
<b>IBEP20</b>	Interface			
	name	External		-
	symbol	External		-
	decimals	External		-
	totalSupply	External		-
	balanceOf	External		-
	getOwner	External		-
	transfer	External	✓	-
	transferFrom	External	✓	-
	approve	External	✓	-
	allowance	External		-
<b>BEP20</b>	Implementation	Ownable, IBEP20		
	<Constructor>	Public	✓	-
	name	External		-
	symbol	External		-
	decimals	External		-
	totalSupply	External		-

	balanceOf	External		-
	getOwner	External		-
	transfer	External	✓	-
	transferFrom	External	✓	-
	approve	External	✓	-
	allowance	External		-
	increaseAllowance	External	✓	-
	decreaseAllowance	External	✓	-
	_transfer	Internal	✓	
	_mint	Internal	✓	
	_approve	Internal	✓	
	_setupDecimals	Internal	✓	
	_beforeTokenTransfer	Internal	✓	
<b>IPancakeV2Factory</b>	Interface			
	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-
	createPair	External	✓	-
	setFeeTo	External	✓	-
	setFeeToSetter	External	✓	-
<b>IPancakeV2Pair</b>	Interface			
	name	External		-
	symbol	External		-
	decimals	External		-
	totalSupply	External		-
	balanceOf	External		-
	allowance	External		-
	approve	External	✓	-
	transfer	External	✓	-
	transferFrom	External	✓	-

	nonces	External		-
	permit	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>IPancakeV2Router01</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>IPancakeV2Router02</b>	Interface	IPancakeV2Router01		
	removeLiquidityETHSupportingFeeOnTransferTokens	External	✓	-
	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupportingFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingFeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
<b>VIV</b>	Implementation	BEP20		
	<Constructor>	Public	Payable	BEP20
	<Receive Ether>	External	Payable	-
	updateMarketingWallet	External	✓	onlyOwner
	updateRandomAIWallet	External	✓	onlyOwner
	updateLiquidityWallet	External	✓	onlyOwner
	updateLiquidityPoolFee	External	✓	onlyOwner
	updateMarketingFee	External	✓	onlyOwner
	excludeFromFees	Public	✓	onlyOwner
	_transfer	Internal	✓	
	_setupRandomAIWallet	Private	✓	

# Contract Flow



## Domain Info

<b>Domain Name</b>	vivustoken.com
<b>Registry Domain ID</b>	2663486327_DOMAIN_COM-VRSN
<b>Creation Date</b>	2021-12-23T00:00:00Z
<b>Updated Date</b>	2021-12-23T17:33:26Z
<b>Registry Expiry Date</b>	2022-12-23T17:23:49Z
<b>Registrar WHOIS Server</b>	whois.ascio.com
<b>Registrar URL</b>	<a href="http://www.ascio.com">http://www.ascio.com</a>
<b>Registrar</b>	Ascio Technologies, Inc
<b>Registrar IANA ID</b>	106

The domain has been created 4 months before the creation of the audit. It will expire in 8 months.

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

## Summary

Vivus Token is an interesting project that has a friendly and growing community. There are some functions that can be abused by the owner, like minting new tokens after initial deployment. The maximum fee percentage that can be set is 10% and it only applies on sales. A multi-wallet signing pattern will provide security against potential hacks. Temporarily locking the contract or renouncing ownership will eliminate some of the contract threats.

### **The contract contains a major issue**

The balances are diverse from the total supply. There are two initial wallets holding twice the total supply.

## 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.

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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>