Cyberscope

Audit Report

Vivus Token

April 2022

Type	BEP20
Network	BSC
Address	0xc6BEa15A6D59E12533ab92D4B683d27Fec3907d8
Audited by	© cyberscope

Table of Contents

Contract Review

Contract Name	VIV
Compiler Version	v0.8.10+commit.fc410830
Optimization	200 runs
Licence	MIT
Explorer	https://bscscan.com/token/0xc6BEa15A6D59E12533ab92D4B683d27Fec3907d8
Symbol	VIV
Decimals	18
Total Supply	1,000,000,000
Domain	

Source Files

Filename	**SHA256**
contract.sol	30bbc49262291c4c8d95a4c8d175979655a300fec1ec42f5eabb35d6a5189818

Audit Updates

Initial Audit	13th April 2022
Corrected	20th April 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

MT - Mint Tokens

Criticality	critical
Location	contract.sol#L766

Description

The contract owner has the authority to mint tokens. The owner may take advantage of it by calling the `mint` function. As a result the contract tokens will be highly inflated

```
function mint(address account, uint256 amount) public onlyOwner {
  _mint(account, amount);
}
```

Recommendation

The owner should carefully manage the credentials of the owner's account. We advised considering an extra-strong security mechanism that the actions may be quarantined by many users instead of one. The owner could also renounce the contract ownership for a period of time or pass the access to the zero address.

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
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
Ownable	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	External	✓	onlyOwner
	transferOwnership	External	✓	onlyOwner
IBEP20	Interface			
	name	External		-
	symbol	External		-
	decimals	External		-
	totalSupply	External		-
	balanceOf	External		-
	getOwner	External		-
	transfer	External	✓	-
	transferFrom	External	✓	-
	approve	External	✓	-
	allowance	External		-
BEP20	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	✓	
IPancakeV2Factory	Interface			
	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-
	createPair	External	✓	-
	setFeeTo	External	✓	-
	setFeeToSetter	External	✓	-
IPancakeV2Pair	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	✓	-
IPancakeV2Router01	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		-
IPancakeV2Router02	Interface	IPancakeV2Router01		
	removeLiquidityETHSupportingFeeOnTransferTokens	External	✓	-
	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupportingFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingFeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
VIV	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
	mint	External	✓	onlyOwner
	excludeFromFees	Public	✓	onlyOwner
	_transfer	Internal	✓	
	_setupRandomAIWallet	Private	✓	

Contract Flow

Domain Info

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

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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