

Audit Report VRALLES

February 2022

Type BEP20

Network BSC

Address 0x1fb67E24D354DcF3646262102B3F9dCCc5a464b2

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Contract Review

Contract Name	BEP20Token
Compiler Version	v0.5.16+commit.9c3226ce
Optimization	200 runs
Licence	None
Explorer	https://bscscan.com/token/0x1fb67E24D354DcF36462 62102B3F9dCCc5a464b2
Symbol	VRL
Decimals	18
Total Supply	250,000,000
Source	contract.sol
Domain	vralles.com

Audit Updates

Initial Audit	24th February 2022
Corrected	

Contract Analysis

CriticalMediumMinorPass

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
•	ВТ	Contract Owner is not able to burn tokens from specific wallet
•	ВС	Contract Owner is not able to blacklist wallets from selling



MT - Mint Tokens

Criticality	critical
Location	contract.sol#L497

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(uint256 amount) public onlyOwner returns (bool) {
   _mint(_msgSender(), amount);
   return true;
}
```

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

CriticalMediumMinor

Severity	Code	Description
•	L01	Public Function could be Declared External
•	L09	Dead Code Elimination

L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L316,325,465,484,497

Description

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

mint
decreaseAllowance
increaseAllowance
transferOwnership
renounceOwnership

Recommendation

Use the external attribute for functions never called from the contract

L09 - Dead Code Elimination

Criticality	minor
Location	contract.sol#L553,588,113,212,227,247,262,187,158

Description

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

```
sub
mul
mod
div
_msgData
_burnFrom
_burn
```

Recommendation

Remove unused functions.



Contract Functions

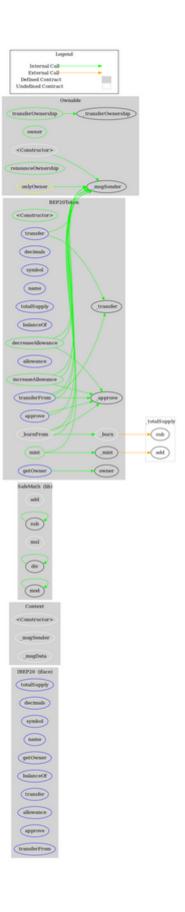
Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
IBEP20	Interface			
	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	getOwner	External		-
	balanceOf	External		-
	transfer	External	1	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	1	-
Context	Implementation			
	<constructor></constructor>	Internal	✓	
	_msgSender	Internal		
	_msgData	Internal		
SafeMath	Library			
	add	Internal		
	sub	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
	mod	Internal		
	mod	Internal		
Ownable	Implementation	Context		
	<constructor></constructor>	Internal	1	



	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_transferOwnership	Internal	1	
BEP20Token	Implementation	Context, IBEP20, Ownable		
	<constructor></constructor>	Public	✓	-
	getOwner	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	1	-
	mint	Public	1	onlyOwner
	_transfer	Internal	1	
	_mint	Internal	1	
	_burn	Internal	✓	
	_approve	Internal	1	
	_burnFrom	Internal	1	



Contract Flow



Domain Info

Domain Name	vralles.com
Registry Domain ID	2669403027_DOMAIN_COM-VRSN
Creation Date	2022-01-19T14:20:08Z
Updated Date	2022-01-31T10:17:29Z
Registry Expiry Date	
Registrar WHOIS Server	whois.aerotek.com.tr
Registrar URL	
Registrar	Aerotek Bilisim Sanayi ve Ticaret AS
Registrar IANA ID	1534

The domain has been created about 1 month before the creation of the audit.

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

Summary

The Smart Contract analysis reported one critical issue. The contract Owner has the ability to mint tokens. If this functionality is abused, the contract tokens would be highly inflated. A multi-wallet signing pattern will provide security against potential hacks. Temporarily locking the contract or renouncing ownership will eliminate all the contract threats.

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Coinscope is aiming to make crypto discoverable and efficient globally. It provides all the essential tools to assist users draw their own conclusions.



The Coinscope.co team

https://www.coinscope.co