Audit Report
Valon Token

December 2021

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Contract Review

Contract Name	ValonToken
Compiler Version	v0.8.7+commit.e28d00a7
Optimization	200 runs
Licence	None
Explorer	https://bscscan.com/token/0xc5419b49c60521116152 fA47481b70CD8D0B742E
Symbol	VLON
Decimals	18
Total Supply	250,000,000
Source	contract.sol
Domain	valon.info

Audit Updates

Initial Audit	27th December 2021
Corrected	

Contract Analysis

● Critical   ● Medium   ● Pass

Severity	Code	Description
●	MT	Contract Owner is not able to mint new tokens
●	BT	Contract Owner is not able to burn tokens from specific wallet
●	ELFM	Contract Owner is not able to increase fees more than a reasonable percent (25%)
●	ST	Contract Owner is not able to pause transactions for everyone else except him
●	OCTD	Contract Owner is not able to transfer tokens from specific address
●	ULTW	Contract Owner is not able to increase the amount of liquidity taken by dev wallet more than a reasonable percent
●	BC	Contract Owner is not able to blacklist wallets from selling

MT - Mint Tokens

Criticality	critical
Location	https://bscscan.com/address/0xc5419b49c60521116152fA47481b70CD8D0B742E#code#L588

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 total supply will be highly inflated.

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

Recommendation

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. That risk can be prevented by renouncing ownership.

Contract Diagnostics

Pass	Name
✓	Integer Underflow
✓	Parity Multisig Bug
✓	Callstack Depth Attack
✓	Transaction-Ordering Dependency
✓	Timestamp Dependency
✓	Re-Entrancy

Contract Functions

Contract	Type	Bases			
	Function Name	**Visibility**	**Mutability**	**Modifiers**	
Context	Implementation				
	_msgSender	Internal			
	_msgData	Internal			
Ownable	Implementation	Context			
	<Constructor>	Public	✓	-	
	owner	Public		-	
	renounceOwnership	Public	✓	onlyOwner	
	transferOwnership	Public	✓	onlyOwner	
	_setOwner	Private	✓		
SafeMath	Library				
	tryAdd	Internal			
	trySub	Internal			
	tryMul	Internal			
	tryDiv	Internal			
	tryMod	Internal			
	add	Internal			
	sub	Internal			
	mul	Internal			
	div	Internal			
	mod	Internal			
	sub	Internal			
	div	Internal			
	mod	Internal			
IBEP20	Interface				

	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	getOwner	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
ValonToken	Implementation	Context, IBEP20, Ownable		
	<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	✓	-
	mint	Public	✓	onlyOwner
	_transfer	Internal	✓	
	_mint	Internal	✓	
	_burn	Internal	✓	
	_approve	Internal	✓	
	_burnFrom	Internal	✓	
	_to18Digits	Private		
	mintTo	Public	✓	onlyOwner

Contract Flow
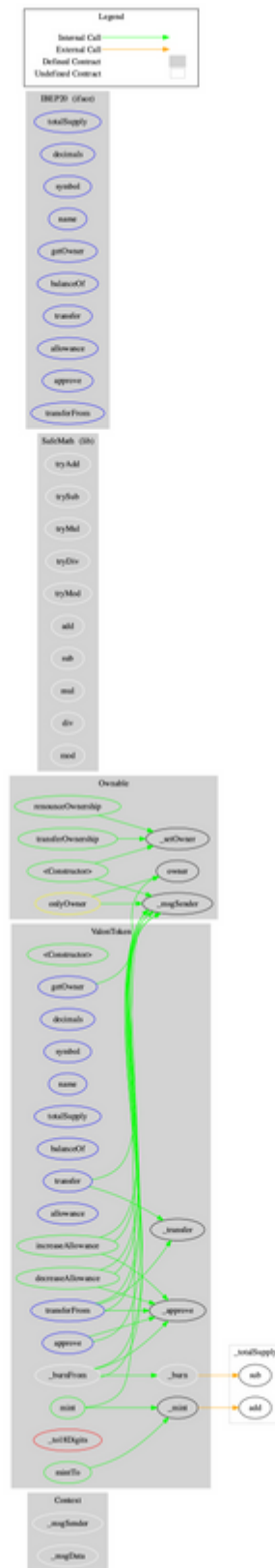
Domain Info

Domain Name	valon.info
Registry Domain ID	586fb1cb0b2746afa4f0f3f5e819f9ac-DONUTS
Creation Date	2021-05-25T01:07:27Z
Updated Date	2021-07-24T20:32:27Z
Registry Expiry Date	2022-05-25T01:07:27Z
Registrar WHOIS Server	
Registrar URL	http://www.internet.bs
Registrar	Internet Domain Service BS Corp
Registrar IANA ID	2487

The domain was created 7 months before the analysis of the audit. It is set for expiration in 5 months.

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

Summary

Valon is an interesting project with a friendly and growing community. Their goal is to create a platform for trading virtual items, NFTs and more. The smart contract analysis showed no compiler errors and one critical security threat. There is an Owner-only function that allows the owner to mint any amount of new tokens. A multi-wallet signing pattern will provide security against potential hacks. Renouncing ownership will eliminate all the contract threats.

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The Coinscope.co team

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