freshcoins

SMART CONTRACT CODE REVIEW AND SECURITY ANALYSIS REPORT

Crypto Vault
$CVT

27/02/2022

TABLE OF CONTENTS

DISCLAIMER

INTRODUCTION

FreshCoins (Consultant) was contracted by
Crypto Vault (Customer) to conduct a Smart Contract Code Review and Security Analysis.

0x8390Ac8950A73C91E64b4f2fBD350dCB59DD1aB1

Network: **Binance Smart Chain (BSC)**

This report presents the findings of the security assessment of Customer's smart contract and its code review conducted on **27/02/2022**

AUDIT OVERVIEW

98

Security Score

98

Static Scan
Automatic scanning for common vulnerabilities

98

ERC Scan
Automatic checks for ERC's conformance

0 High

0 Medium

0 Low

0 Optimizations

0 Informational

No.	Issue description	Checking Status
1	Compiler Errors / Warnings	Passed
2	Reentrancy and Cross-function	Passed
3	Front running	Passed
4	Timestamp dependence	Passed
5	Integer Overflow and Underflow	Passed
6	Reverted DoS	Passed
7	DoS with block gas limit	Passed
8	Methods execution permissions	Passed
9	Exchange rate impact	Passed
10	Malicious Event	Passed
11	Scoping and Declarations	Passed
12	Uninitialized storage pointers	Passed
13	Design Logic	Passed
14	Safe Zeppelin module	Passed

OWNER PRIVILEGES

Contract owner can't exclude an address from transactions.

Contract owner can't mint tokens after initial contract deploy

Contract owner can exclude/include wallet from fees

```solidity
function excludeFromFee(address account) public onlyOwner {
    _isExcludedFromFee[account] = true;
}

function includeInFee(address account) public onlyOwner {
    _isExcludedFromFee[account] = false;
}
```

Contract owner can change the fees up to 40%

```solidity
/* Fees */
uint256 public _maxLiqFee = 10;
uint256 public _maxTaxFee = 10;

.
.
.

function setTaxFeePercent(uint256 taxFee) external onlyOwner {
    require(taxFee >= 0 && taxFee <=_maxTaxFee,"taxFee out of range");
    _previousTaxFee = _taxFee;
    _taxFee = taxFee;
}

function setLiqFeePercent(uint256 liqFee) external onlyOwner {
    require(liqFee >= 0 && liqFee <=_maxLiqFee,"liquidityFee out of range");
    _previousLiqFee = _liqFee;
    _liqFee = liqFee;
}

function setDeveloperFeePercent(uint256 developerFee) external onlyOwner {
    require(developerFee >= 0 && developerFee <=_maxTaxFee,"taxFee out of range");
    _previousDeveloperFee = _developerFee;
    _developerFee = developerFee;
}

function setMarketingFeePercent(uint256 marketingFee) external onlyOwner {
    require(marketingFee >= 0 && marketingFee <=_maxTaxFee,"taxFee out of range");
    _previousMarketingFee = _marketingFee;
    _marketingFee = marketingFee;
}
```

Contract owner can change _developerAddress and _marketingAddress addresses

Current values:

_developerAddress : 0x0000000000000000000000000000000000000000

_marketingAddress : 0x0000000000000000000000000000000000000000

```solidity
function setDeveloperAddress(address payable developer) public onlyOwner {
    _developerAddress = developer;
}

function setMarketingAddress(address payable marketing) public onlyOwner {
    _marketingAddress = marketing;
}
```

Contract owner can change max tx amount

```solidity
function setMaxTxPercent(uint256 maxTxPercent) external onlyOwner {
    _maxTxAmount = _tTotal.mul(maxTxPercent).div(
        10**2
    );
}
```

Contract owner can renounce ownership

```solidity
function renounceOwnership() public virtual onlyOwner {
    emit OwnershipTransferred(_owner, address(0));
    _owner = address(0);
}
```

Contract owner can transfer ownership

```solidity
function transferOwnership(address newOwner) public virtual onlyOwner {
    require(newOwner != address(0), "Ownable: new owner is the zero address");
    emit OwnershipTransferred(_owner, newOwner);
    _owner = newOwner;
}
```

CONCLUSION AND ANALYSIS

Smart Contracts within the scope were manually reviewed and analyzed with static tools.

Audit report overview contains all found security vulnerabilities and other issues in the reviewed code.

Found no issue during the first review.

TOKEN DETAILS

Details

Buy fees:	10%
Sell fees:	10%
Max TX:	5,000,000,000
Max Sell:	N/A

Honeypot Risk

Ownership:	Owned
Blacklist:	Not detected
Modify Max TX:	Detected
Modify Max Sell:	Not detected
Disable Trading:	Not detected

Rug Pull Risk

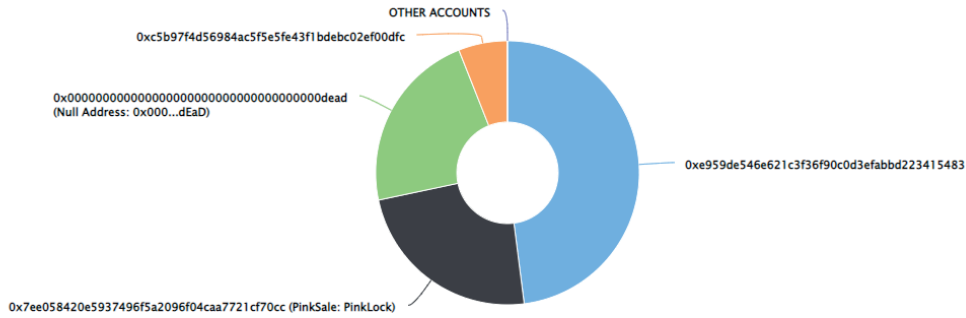|	
Liquidity:	N/A
Holders:	Clean

CRYPTO VAULT TOKEN ANALYTICS & TOP 10 TOKEN HOLDERS

The top 10 holders collectively own 100.00% (1,000,000,000,000.00 Tokens) of Crypto Vault   Token Total Supply: 1,000,000,000,000.00 Token | Total Token Holders: 4

Crypto Vault Top 10 Token Holders

Source: BscScan.com

OTHER ACCOUNTS

0xc5b97f4d56984ac5f5e5fe43f1bdebc02ef00dfc

0x0000000000000000000000000000000000000dead
(Null Address: 0x000...dEaD)

0xe959de546e621c3f36f90c0d3efabbd223415483

0x7ee058420e5937496f5a2096f04caa7721cf70cc (PinkSale: PinkLock)

(A total of 1,000,000,000,000.00 tokens held by the top 10 accounts from the total supply of 1,000,000,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	0xe959de546e621c3f36f90c0d3efabbd223415483	479,840,000,000	47.9840%
2	PinkSale: PinkLock	237,160,000,000	23.7160%
3	Null Address: 0x000...dEaD	223,000,000,000	22.3000%
4	0xc5b97f4d56984ac5f5e5fe43f1bdebc02ef00dfc	60,000,000,000	6.0000%

TECHNICAL DISCLAIMER

Smart contracts are deployed and executed on the blockchain platform.
The platform, its programming language, and other software related
to the smart contract can have its vulnerabilities that can lead to hacks.
The audit can't guarantee the explicit security of the
audited project / smart contract.