



Cyberscope

Audit Report

3D Coin

July 2022

SHA256 eba3f80f6ea3b044d40d3580c7807885207277894a82af3be1a336d8ae56d428

Audited by © cyberscope

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Contract Review

Contract Name	ICO
Test Deploy	https://bscscan.com/token/0xeE7bBAC408F7bb4D275B13178Ea3f9CB396fD68D
Domain	https://www.3dhoudini.com

Audit Updates

Initial Audit	15th July 2022
Corrected	

Source Files

Filename	SHA256
@openzeppelin/contracts/access/Ownable.sol	9353af89436556f7ba8abb3f37a6677249aa4df6024fbfaa94f79ab2f44f3231
@openzeppelin/contracts/token/ERC1155/ERC1155.sol	3a7b1481259da24728a0bac33ac9728c0faf71d436e4f198209815f732240a24
@openzeppelin/contracts/token/ERC1155/extensions/ERC1155Burnable.sol	1093c31ab9989866598a66e0d162d63aeae7e008c9cdf2b6625f113d6e30ae2b
@openzeppelin/contracts/token/ERC1155/extensions/IERC1155MetadataURI	6987fbfa647d3da51e8c270371ac48c5fcd26fb046cf54644b39aa098ae30324

.sol	
@openzeppelin/contracts/token/ERC1155/IERC1155.sol	fd6a1801f1f2f8af0a3ece0b254da06ec24568aec02cfe94827061379aebc6f3
@openzeppelin/contracts/token/ERC1155/IERC1155Receiver.sol	578834a1bcdac6a22de5e07ae63bbbd4d41615f35950afc6e6c068d92619b334
@openzeppelin/contracts/token/ERC20/ERC20.sol	5031430cc2613c32736d598037d3075985a2a09e61592a013dbd09a5bc2041b8
@openzeppelin/contracts/token/ERC20/extensions/IERC20Metadata.sol	af5c8a77965cc82c33b7ff844deb9826166689e55dc037a7f2f790d057811990
@openzeppelin/contracts/token/ERC20/IERC20.sol	94f23e4af51a18c2269b355b8c7cf4db8003d075c9c541019eb8dcf4122864d5
@openzeppelin/contracts/utils/Addresses.sol	1e0922f6c0bf6b1b8b4d480dcabb691b1359195a297bde6dc5172e79f3a1f826
@openzeppelin/contracts/utils/Context.sol	1458c260d010a08e4c20a4a517882259a23a4baa0b5bd9add9fb6d6a1549814a
@openzeppelin/contracts/utils/Counter.sol	2fdcb1343e5621385b62e57b5c7775607c272122b6f2dc77da8f84828aa40cd0
@openzeppelin/contracts/utils/introspection/ERC165.sol	8806a632d7b656cadb8133ff8f2acae4405b3a64d8709d93b0fa6a216a8a6154
@openzeppelin/contracts/utils/introspection/IERC165.sol	701e025d13ec6be09ae892eb029cd83b3064325801d73654847a5fb11c58b1e5

@openzeppelin/contracts/utils/math/SafeMath.sol	0dc33698a1661b22981abad8e5c6f5ebca0dfe5ec14916369a2935d888ff257a
contracts/crowdsale/Crowdsale.sol	2798fa463b1bbce510fb0d8999af02044725a3452b41fe6b52d2ff177daf31e5
contracts/ForeverNFT.sol	37691ee485ba22053f94d2536ed1ce6c8d6f912dd25faeef0a6dd33013acfea
contracts/ICO.sol	eba3f80f6ea3b044d40d3580c7807885207277894a82af3be1a336d8ae56d428
contracts/NFT/ERC1155Holder.sol	438e432bc17f841f3dad6da813e1fc498e54a6c9667aa7697563a48f72721a60
contracts/NFT/ERC1155Receiver.sol	a8fd333c2ef4c83438a940841f4412c112815efd3a8d3be114b0c2d080c26158

Introduction

The ICO contract is managing the funds that are raised for the Forever NFTs. Each Forever NFT tries to raise a specific amount of tokens when the goal is reached then the fund raising is finished. On each investment on the Forever NFT a rate is returned to the owner of the Forever NFT. All the funds are collected to an address. Last but not least, all the sales are stored in the blockchain

Contract Diagnostics

● Critical ● Medium ● Minor

Severity	Code	Description
●	STC	Succeeded Transfer Check
●	L15	Local Scope Variable Shadowing

STC - Succeeded Transfer Check

Criticality

minor

Location

contract.sol#L185

Description

According to the ERC20 specification, the transfer methods should be checked if the result is successful. Otherwise, the contract may wrongly assume that the transfer has been established.

```
function _deliverTokens(address _beneficiary, uint256 _tokenAmount)
internal
{
    // _tokenAmount == rate;
    token.transfer(_beneficiary, _tokenAmount);
}
```

Recommendation

The contract should check if the result of the transfer methods is successful.

L15 - Local Scope Variable Shadowing

Criticality

minor

Location

contracts/ICO.sol#L9,10,11,8

Description

There are variables that are defined in the local scope containing the same name from an upper scope.

```
rate
cap
token
wallet
```

Recommendation

The local variables should have different names from the upper scoped variables.

Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
Ownable	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	_checkOwner	Internal		
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_transferOwnership	Internal	✓	
ERC1155	Implementation	Context, ERC165, IERC1155, IERC1155M etadataURI		
	<Constructor>	Public	✓	-
	supportsInterface	Public		-
	uri	Public		-
	balanceOf	Public		-
	balanceOfBatch	Public		-
	setApprovalForAll	Public	✓	-
	isApprovedForAll	Public		-
	safeTransferFrom	Public	✓	-
	safeBatchTransferFrom	Public	✓	-
	_safeTransferFrom	Internal	✓	
	_safeBatchTransferFrom	Internal	✓	
	_setURI	Internal	✓	
	_mint	Internal	✓	
	_mintBatch	Internal	✓	
	_burn	Internal	✓	
	_burnBatch	Internal	✓	
	_setApprovalForAll	Internal	✓	

	_beforeTokenTransfer	Internal	✓	
	_afterTokenTransfer	Internal	✓	
	_doSafeTransferAcceptanceCheck	Private	✓	
	_doSafeBatchTransferAcceptanceCheck	Private	✓	
	_asSingletonArray	Private		
ERC1155Burnable	Implementation	ERC1155		
	burn	Public	✓	-
	burnBatch	Public	✓	-
IERC1155MetadataURI	Interface	IERC1155		
	uri	External		-
IERC1155	Interface	IERC165		
	balanceOf	External		-
	balanceOfBatch	External		-
	setApprovalForAll	External	✓	-
	isApprovedForAll	External		-
	safeTransferFrom	External	✓	-
	safeBatchTransferFrom	External	✓	-
IERC1155Receiver	Interface	IERC165		
	onERC1155Received	External	✓	-
	onERC1155BatchReceived	External	✓	-
ERC20	Implementation	Context, IERC20, IERC20Metadata		
	<Constructor>	Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-

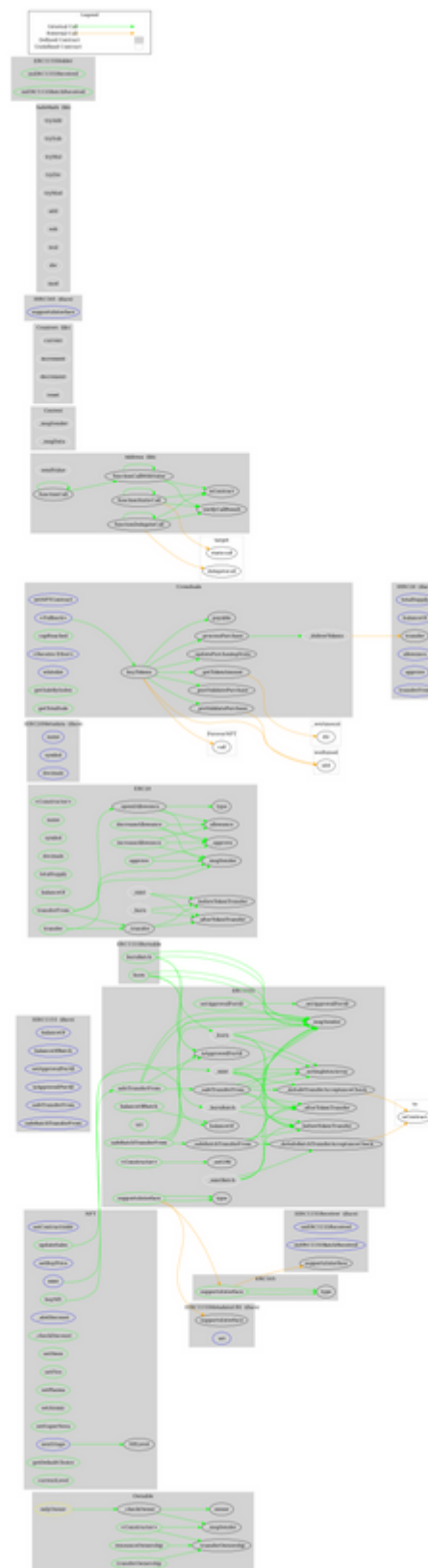
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	_transfer	Internal	✓	
	_mint	Internal	✓	
	_burn	Internal	✓	
	_approve	Internal	✓	
	_spendAllowance	Internal	✓	
	_beforeTokenTransfer	Internal	✓	
	_afterTokenTransfer	Internal	✓	
IERC20Metadata	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
Address	Library			
	isContract	Internal		
	sendValue	Internal	✓	
	functionCall	Internal	✓	
	functionCall	Internal	✓	

	functionCallWithValue	Internal	✓	
	functionCallWithValue	Internal	✓	
	functionStaticCall	Internal		
	functionStaticCall	Internal		
	functionDelegateCall	Internal	✓	
	functionDelegateCall	Internal	✓	
	verifyCallResult	Internal		
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
Counters	Library			
	current	Internal		
	increment	Internal	✓	
	decrement	Internal	✓	
	reset	Internal	✓	
ERC165	Implementation	IERC165		
	supportsInterface	Public		-
IERC165	Interface			
	supportsInterface	External		-
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		
Crowdsale	Implementation	Ownable		
	<Constructor>	Public	✓	-
	setNFTContract	External	✓	onlyOwner
	<Fallback>	External	Payable	-
	buyTokens	Public	Payable	-
	capReached	Public		-
	_preValidatePurchase	Internal		
	_postValidatePurchase	Internal	✓	
	_deliverTokens	Internal	✓	
	_processPurchase	Internal	✓	
	_updatePurchasingState	Internal	✓	
	_getTokenAmount	Internal		
	<Receive Ether>	External	Payable	-
	whitelist	External	✓	onlyOwner
	getSaleByIndex	Public		-
	getTotalSale	Public		-
NFT	Implementation	ERC1155, Ownable, ERC1155Bu rnable, ERC1155Ho lder		
	<Constructor>	Public	Payable	ERC1155
	supportsInterface	Public		-
	setContractAddr	External	✓	onlyOwner
	mint	External	✓	onlyOwner
	setBuyPrice	External	✓	onlyOwner
	buyNft	Public	Payable	-
	updateSales	Public	✓	-
	_alotDiscount	External	✓	onlyOwner
	_checkDiscount	Public		-
	setNeon	Public	✓	-

	setFire	Public	✓	-
	setPlasma	Public	✓	-
	setAtomic	Public	✓	-
	setSuperNova	Public	✓	-
	nextStage	External	✓	onlyOwner
	getDefaultChoice	Public		-
	currentLevel	Public		-
ICO	Implementation	Crowdsale		
	<Constructor>	Public	✓	Crowdsale
ERC1155Holder	Implementation	ERC1155Receiver		
	onERC1155Received	Public	✓	-
	onERC1155BatchReceived	Public	✓	-
ERC1155Receiver	Implementation	ERC165, IERC1155Receiver		
	supportsInterface	Public		-

Contract Flow



Domain Info

Domain Name	3dhoudini.com
Registry Domain ID	2410837419_DOMAIN_COM-VRSN
Creation Date	2019-07-09T05:11:00.00Z
Updated Date	2022-06-07T07:52:34.00Z
Registry Expiry Date	2023-07-09T05:11:36.00Z
Registrar WHOIS Server	WHOIS.DREAMHOST.COM
Registrar URL	WWW.DREAMHOST.COM
Registrar	DREAMHOST
Registrar IANA ID	431

The domain has been created in 12 months before the creation of the audit.

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

Summary

3D Coin Token is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler error or critical issues. The contract Owner can access some admin functions that can not be used in a malicious way to disturb the users' transactions.

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 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 provide all the essential tools to assist users draw their own conclusions.



The Cyberscope team

<https://www.cyberscope.io>