



# Cyberscope

## Audit Report

# NFTWorkx

April 2022

Type       BEP20

Network     BSC

Address     0x6ad0b271f4b3d7651ae9947a18bae29ca20d83eb

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# Table of Contents

<b>Table of Contents</b>	<b>1</b>
<b>Contract Review</b>	<b>3</b>
<b>Source Files</b>	<b>3</b>
<b>Audit Updates</b>	<b>3</b>
<b>Contract Analysis</b>	<b>4</b>
<b>Contract Diagnostics</b>	<b>5</b>
<b>L01 - Public Function could be Declared External</b>	<b>6</b>
<b>Description</b>	<b>6</b>
<b>Recommendation</b>	<b>6</b>
<b>L02 - State Variables could be Declared Constant</b>	<b>7</b>
<b>Description</b>	<b>7</b>
<b>Recommendation</b>	<b>7</b>
<b>L04 - Conformance to Solidity Naming Conventions</b>	<b>8</b>
<b>Description</b>	<b>8</b>
<b>Recommendation</b>	<b>8</b>
<b>L09 - Dead Code Elimination</b>	<b>9</b>
<b>Description</b>	<b>9</b>
<b>Recommendation</b>	<b>9</b>
<b>Contract Functions</b>	<b>10</b>
<b>Contract Flow</b>	<b>12</b>
<b>Domain Info</b>	<b>13</b>
<b>Summary</b>	<b>14</b>
<b>Disclaimer</b>	<b>15</b>
<b>About Cyberscope</b>	<b>16</b>

## Contract Review

<b>Contract Name</b>	standardToken
<b>Compiler Version</b>	v0.8.4+commit.c7e474f2
<b>Optimization</b>	200 runs
<b>Licence</b>	MIT
<b>Explorer</b>	<a href="https://bscscan.com/token/0x6ad0b271f4b3d7651ae9947a18bae29ca20d83eb">https://bscscan.com/token/0x6ad0b271f4b3d7651ae9947a18bae29ca20d83eb</a>
<b>Symbol</b>	WRKX
<b>Decimals</b>	18
<b>Total Supply</b>	1,000,000,000
<b>Domain</b>	nftworkx.com

## Source Files

<b>Filename</b>	<b>SHA256</b>
<b>contract.sol</b>	4270ea9ccb51235937a6a1a240a118962a99e47b93e3b5205a390807936a00cb

## Audit Updates

<b>Initial Audit</b>	24th April 2022
<b>Corrected</b>	

# 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

# Contract Diagnostics

● Critical   ● Medium   ● Minor

Severity	Code	Description
●	L01	Public Function could be Declared External
●	L02	State Variables could be Declared Constant
●	L04	Conformance to Solidity Naming Conventions
●	L09	Dead Code Elimination

## L01 - Public Function could be Declared External

<b>Criticality</b>	minor
<b>Location</b>	contract.sol#L314,333,342,348,353,361,403,411,428,435,442,454,462,473,491,513,532

### Description

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

```
decreaseAllowance  
increaseAllowance  
transferFrom  
approve  
allowance  
transfer  
balanceOf  
totalSupply  
decimals  
...
```

### Recommendation

Use the external attribute for functions never called from the contract.

## L02 - State Variables could be Declared Constant

<b>Criticality</b>	minor
<b>Location</b>	contract.sol#L376

### Description

Constant state variables should be declared constant to save gas.

```
generatedUsingDxMint
```

### Recommendation

Add the constant attribute to state variables that never change.

## L04 - Conformance to Solidity Naming Conventions

<b>Criticality</b>	minor
<b>Location</b>	contract.sol#L372,382

### 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.

```
_creator  
standardToken
```

### 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#L599

### Description

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

`_burn`

### Recommendation

Remove unused functions.

# Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
<b>IERC20</b>	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
<b>IERC20Metadata</b>	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-
<b>Context</b>	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
<b>SafeMath</b>	Library			
	add	Internal		
	sub	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
	mod	Internal		
	mod	Internal		
<b>Ownable</b>	Implementation	Context		

	<Constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	geUnlockTime	Public		-
	lock	Public	✓	onlyOwner
	unlock	Public	✓	-
<b>standardToken</b>	Implementation	Context, IERC20, IERC20Met adata, Ownable		
	<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	✓	
	_beforeTokenTransfer	Internal	✓	

# Contract Flow



## Domain Info

<b>Domain Name</b>	nftworkx.com
<b>Registry Domain ID</b>	2641223474_DOMAIN_COM-VRSN
<b>Creation Date</b>	2021-09-15T14:47:06Z
<b>Updated Date</b>	2021-09-20T19:28:52Z
<b>Registry Expiry Date</b>	2022-09-15T14:47:06Z
<b>Registrar WHOIS Server</b>	whois.dynadot.com
<b>Registrar URL</b>	<a href="http://www.dynadot.com">http://www.dynadot.com</a>
<b>Registrar</b>	DYNADOT, LLC
<b>Registrar IANA ID</b>	472

The domain has been created 7 months before the creation of the audit. It will expire in 5 months.

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

## Summary

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



The Cyberscope team

<https://www.cyberscope.io>