



Cyberscope

# Audit Report

## **World 6 Game**

September 2022

Type           BEP20

Network       BSC

Address       0xC447424184d964537fA9E0D7B2d658b60DF289B3

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# Table of Contents

<b>Table of Contents</b>	<b>1</b>
<b>Contract Review</b>	<b>3</b>
<b>Audit Updates</b>	<b>3</b>
<b>Source Files</b>	<b>4</b>
<b>Solidity Assembly MethodId Analysis</b>	<b>5</b>
<b>Contract Analysis</b>	<b>6</b>
<b>ULTW - Transfers Liquidity to Team Wallet</b>	<b>7</b>
Description	7
Recommendation	7
<b>Contract Diagnostics</b>	<b>8</b>
<b>PTFE - Paired Token Fees Exempt</b>	<b>9</b>
Description	9
Recommendation	9
<b>MFEA - Misleading Fees Exempt Assumption</b>	<b>10</b>
Description	10
Recommendation	10
<b>SAD - Swapped Amount Diversion</b>	<b>11</b>
Description	11
Recommendation	11
<b>L01 - Public Function could be Declared External</b>	<b>12</b>
Description	12
Recommendation	12
<b>L02 - State Variables could be Declared Constant</b>	<b>13</b>
Description	13
Recommendation	13
<b>L04 - Conformance to Solidity Naming Conventions</b>	<b>14</b>

<b>Description</b>	<b>14</b>
<b>Recommendation</b>	<b>14</b>
<b>L05 - Unused State Variable</b>	<b>15</b>
<b>Description</b>	<b>15</b>
<b>Recommendation</b>	<b>15</b>
<b>L09 - Dead Code Elimination</b>	<b>16</b>
<b>Description</b>	<b>16</b>
<b>Recommendation</b>	<b>16</b>
<b>Contract Functions</b>	<b>17</b>
<b>Contract Flow</b>	<b>21</b>
<b>Domain Info</b>	<b>22</b>
<b>Summary</b>	<b>23</b>
<b>Disclaimer</b>	<b>24</b>
<b>About Cyberscope</b>	<b>25</b>

## Contract Review

<b>Contract Name</b>	World_6_Game
<b>Compiler Version</b>	v0.8.7+commit.e28d00a7
<b>Optimization</b>	200 runs
<b>Licence</b>	MIT
<b>Explorer</b>	<a href="https://bscscan.com/token/0xC447424184d964537fA9E0D7B2d658b60DF289B3">https://bscscan.com/token/0xC447424184d964537fA9E0D7B2d658b60DF289B3</a>
<b>Symbol</b>	W6G
<b>Decimals</b>	18
<b>Total Supply</b>	50,000,000
<b>Domain</b>	world6game.com

## Audit Updates

<b>Initial Audit</b>	12th September 2022 <a href="https://github.com/cyberscope-io/audits/blob/main/w6g/v1/audit.pdf">https://github.com/cyberscope-io/audits/blob/main/w6g/v1/audit.pdf</a>
<b>Corrected</b>	15th September 2022

## Source Files

Filename	SHA256
<b>Authorized.sol</b>	de019cc6f2a52b295fef0221aff0ce3ca8a5fc803e64528243455da11ea5642c
<b>Context.sol</b>	91bb853b4716bea8540722c7b13af34e2f24b01a3654cad68246a72e6c759b8
<b>ERC20.sol</b>	adea8d6813eba55020be787c8a9bef8a71f90c96fd5c75544bc4ac1bccbd51ab
<b>IERC20.sol</b>	4ad9e1338842c0a911ed1994774827c17eea117751a56f1111193d0bc4c0006e
<b>IERC20Metadata.sol</b>	aa7bbf621cc23ca80abde64c64ff6f9503aceae5592f8e3ed2d0ab0a345e09e6
<b>IPancake.sol</b>	ce5cedde1004c8768e88974c30f9d386f0e4f56f084d03e1397a5c8a2a274aa9
<b>Ownable.sol</b>	4a0c4ca403220345b36b1a2e02b5fe041c0e93aa5603a964344c4b3f2c3a8a36
<b>Strings.sol</b>	958c2a94731d0ceaaa0830b457842ec11471197f894c2afd6facd7709275f8ac
<b>SwapHelper.sol</b>	170476456e4c0725ddda16b1aa72b13289c108e7f01ac0ed11c0033dc89045ff
<b>W6G.sol</b>	9c5f0d2b1385f7399cdc15efbc35842686a54319f23b127d424cd5b6d69b4617

## Solidity Assembly MethodId Analysis

MethodId	Method Name
0x70a08231	balanceOf( address )
0x022c0d9f	swap( uint256, uint256, address, bytes )
0x23b872dd	transferFrom( address, address, uint256 )
0xa9059cbb	transfer( address, uint256 )
0x0dfe1681	token0( )
0x0902f1ac	getReserves( )

# Contract Analysis

● Critical ● Medium ● Minor / Informative ● Pass

Severity	Code	Description	Status
●	ST	Stops Transactions	Passed
●	OCTD	Transfers Contract's Tokens	Passed
●	OTUT	Transfers User's Tokens	Passed
●	ELFM	Exceeds Fees Limit	Passed
●	ULTW	Transfers Liquidity to Team Wallet	Unresolved
●	MT	Mints Tokens	Passed
●	BT	Burns Tokens	Passed
●	BC	Blacklists Addresses	Passed

## ULTW - Transfers Liquidity to Team Wallet

<b>Criticality</b>	minor / informative
<b>Location</b>	contract.sol#L195
<b>Status</b>	Unresolved

### Description

The contract owner has the authority to liquidate funds. These funds have been accumulated from fees collected from the contract. The liquidity can be transferred to a wallet by calling the `buyBackAndHoldWithDecimals` method.

```
function buyBackWithDecimals(uint256 decimalAmount, address destAddress) private {  
    -  
    -  
    -  
    if (destAddress == address(0)) {  
        swapToken(pairWbnbToken, reversed ? tokenAmount : 0, reversed ? 0 : tokenAmount,  
swapHelperAddress);  
        _burn(swapHelperAddress, tokenAmount);  
        totalBurned += tokenAmount;  
    } else {  
        swapToken(pairWbnbToken, reversed ? tokenAmount : 0, reversed ? 0 : tokenAmount,  
destAddress);  
    }  
    exemptFee[WBNB_TOKEN_PAIR] = previousExemptFeeState;  
}
```

### Recommendation

The contract could embody a check for the maximum amount of funds that can be swapped. Since a huge amount may volatile the token's price.

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 temporarily locking the contract or renouncing ownership.



# Contract Diagnostics

● Critical   ● Medium   ● Minor / Informative

Severity	Code	Description	Status
●	PTFE	Paired Token Fees Exempt	Unresolved
●	MFEA	Misleading Fees Exempt Assumption	Unresolved
●	SAD	Swapped Amount Diversion	Unresolved
●	L01	Public Function could be Declared External	Unresolved
●	L02	State Variables could be Declared Constant	Unresolved
●	L04	Conformance to Solidity Naming Conventions	Unresolved
●	L05	Unused State Variable	Unresolved

## PTFE - Paired Token Fees Exempt

<b>Criticality</b>	minor / informative
<b>Location</b>	contract.sol#L155
<b>Status</b>	Unresolved

### Description

The contract assumes that during the swap of the BNB/Token pair, the contract should not tax the transfer. That means that the pairWbnbToken address should not be excluded from the exemptFee structure.

```
uint256 wbnbAmount = getAmountOut(feeTokenAmount, reserve1, reserve0);
swapToken(pairWbnbToken, reversed ? 0 : wbnbAmount, reversed ? wbnbAmount : 0,
swapHelperAddress);
uint256 wbnbBalanceNew = getTokenBalanceOf(wbnbAddress, swapHelperAddress);
require(wbnbBalanceNew == wbnbBalanceBefore + wbnbAmount, "Wrong amount of
swapped on WBNB");
```

### Recommendation

The contract should not allow the address pairWbnbToken to be removed from the exemptFee.

## MFEA - Misleading Fees Exempt Assumption

<b>Criticality</b>	minor / informative
<b>Location</b>	contract.sol#L157,168
<b>Status</b>	Unresolved

### Description

The contract is based on the fact that the external tokens WBNB and BUSD will never add fees in their transfer functionality.

```
uint256 wbnbAmount = getAmountOut(feeTokenAmount, reserve1, reserve0);
swapToken(pairWbnbToken, reversed ? 0 : wbnbAmount, reversed ? wbnbAmount : 0,
swapHelperAddress);
uint256 wbnbBalanceNew = getTokenBalanceOf(wbnbAddress, swapHelperAddress);
require(wbnbBalanceNew == wbnbBalanceBefore + wbnbAmount, "Wrong amount of
swapped on WBNB");

uint256 busdBalanceBefore = getTokenBalanceOf(busdAddress, address(this));
tokenTransferFrom(wbnbAddress, swapHelperAddress, pairWbnbBusd, wbnbAmount);
uint256 busdAmount = getAmountOut(wbnbAmount, reserve0, reserve1);
swapToken(pairWbnbBusd, reversed ? busdAmount : 0, reversed ? 0 : busdAmount,
address(this));
uint256 busdBalanceNew = getTokenBalanceOf(busdAddress, address(this));
require(busdBalanceNew == busdBalanceBefore + busdAmount, "Wrong amount swapped
on BUSD");
```

### Recommendation

Since it is an external factor that can be changed, the implementation could be more tolerant.

## SAD - Swapped Amount Diversion

<b>Criticality</b>	minor
<b>Location</b>	contract.sol#L216
<b>Status</b>	Unresolved

### Description

The `_burn` function should take into consideration the tokens that have been swapped and not the fixed number.

```
tokenTransfer(WBNB, pairWbnbToken, wbnbAmount);

uint256 tokenAmount = getAmountOut(wbnbAmount, reserve0, reserve1);
if (destAddress == address(0)) {
    swapToken(pairWbnbToken, reversed ? tokenAmount : 0, reversed ? 0 : tokenAmount,
swapHelperAddress);
    _burn(swapHelperAddress, tokenAmount);
    totalBurned += tokenAmount;
} else {
    swapToken(pairWbnbToken, reversed ? tokenAmount : 0, reversed ? 0 : tokenAmount,
destAddress);
}
exemptFee[WBNB_TOKEN_PAIR] = previousExemptFeeState;
```

### Recommendation

The team is advised to carefully check if the implementation follows the expected business logic.

## L01 - Public Function could be Declared External

<b>Criticality</b>	minor / informative
<b>Location</b>	ERC20.sol#L61,69,86,93,100,112,120,131,149,177,196  Ownable.sol#L53,61  W6G.sol#L66,67,70,71
<b>Status</b>	Unresolved

### Description

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

```
name
symbol
decimals
totalSupply
balanceOf
transfer
allowance
approve
transferFrom
...
```

### Recommendation

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

## L02 - State Variables could be Declared Constant

<b>Criticality</b>	minor / informative
<b>Location</b>	W6G.sol#L30,29,35,36
<b>Status</b>	Unresolved

### Description

Constant state variables should be declared constant to save gas.

```
_maxAccountAmount  
_maxTxAmount  
feeDevelopmentWallet  
feeStakePool1
```

### Recommendation

Add the constant attribute to state variables that never change.

## L04 - Conformance to Solidity Naming Conventions

<b>Criticality</b>	minor / informative
<b>Location</b>	ERC20.sol#L35  W6G.sol#L11,321,322,323,324,21,22,25,26,27,29,30,51,53
<b>Status</b>	Unresolved

### 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.

```
_balances  
World_6_Game  
setWBNB_TOKEN_PAIR  
setWBNB_BUSD_Pair  
getWBNB_TOKEN_PAIR  
getWBNB_BUSD_Pair  
_name  
_symbol  
decimal  
...
```

### Recommendation

Follow the Solidity naming convention.

<https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-conventions>.

## L05 - Unused State Variable

<b>Criticality</b>	minor / informative
<b>Location</b>	W6G.sol#L13
<b>Status</b>	Unresolved

### Description

There are segments that contain unused state variables.

ZERO

### Recommendation

Remove unused state variables.



## L09 - Dead Code Elimination

<b>Criticality</b>	minor / informative
<b>Location</b>	ERC20.sol#L220  Strings.sol#L39
<b>Status</b>	Unresolved

### Description

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

```
_transfer  
toHexString
```

### Recommendation

Remove unused functions.

# Contract Functions

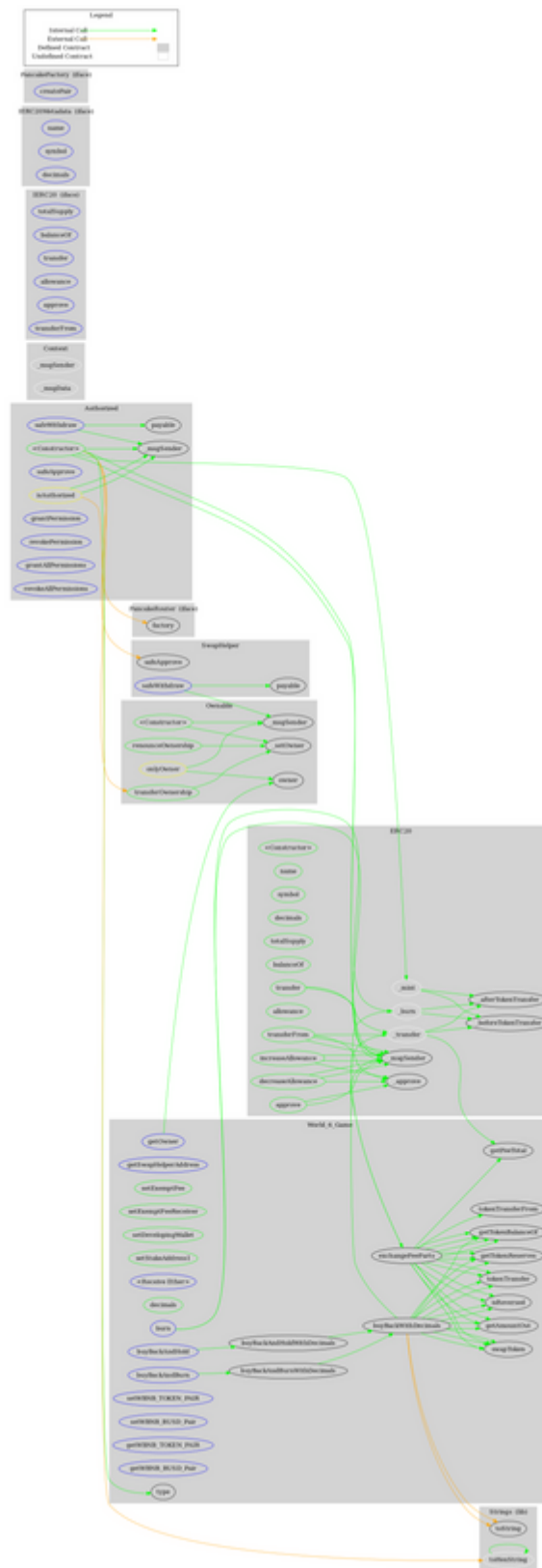
Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
Authorized	Implementation	Ownable		
	<Constructor>	Public	✓	-
	safeApprove	External	✓	isAuthorized
	safeWithdraw	External	✓	isAuthorized
	grantPermission	External	✓	isAuthorized
	revokePermission	External	✓	isAuthorized
	grantAllPermissions	External	✓	isAuthorized
	revokeAllPermissions	External	✓	isAuthorized
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
ERC20	Implementation	Context, IERC20, IERC20Met adata		
	<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	✓	
	_afterTokenTransfer	Internal	✓	
<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>PancakeFactory</b>	Interface			
	createPair	External	✓	-
<b>PancakeRouter</b>	Interface			
	factory	External		-
<b>Ownable</b>	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_setOwner	Private	✓	
<b>Strings</b>	Library			

	toString	Internal		
	toHexString	Internal		
	toHexString	Internal		
<b>SwapHelper</b>	Implementation	Ownable		
	<Constructor>	Public	✓	-
	safeApprove	External	✓	onlyOwner
	safeWithdraw	External	✓	onlyOwner
<b>World_6_Game</b>	Implementation	Authorized, ERC20		
	getOwner	External		-
	getFeeTotal	Public		-
	getSwapHelperAddress	External		-
	setExemptFee	Public	✓	onlyOwner
	setExemptFeeReceiver	Public	✓	onlyOwner
	setDevelopingWallet	Public	✓	onlyOwner
	setStakeAddress1	Public	✓	onlyOwner
	<Receive Ether>	External	Payable	-
	<Constructor>	Public	✓	ERC20
	decimals	Public		-
	_transfer	Internal	✓	
	exchangeFeeParts	Private	✓	
	burn	External	✓	-
	buyBackAndHold	External	✓	onlyOwner
	buyBackAndHoldWithDecimals	Public	✓	onlyOwner
	buyBackAndBurn	External	✓	onlyOwner
	buyBackAndBurnWithDecimals	Public	✓	onlyOwner
	buyBackWithDecimals	Private	✓	
	getAmountOut	Internal		
	isReversed	Internal		
	tokenTransfer	Internal	✓	
	tokenTransferFrom	Internal	✓	
	swapToken	Internal	✓	
	getTokenBalanceOf	Internal		
	getTokenReserves	Internal		

	setWBNB_TOKEN_PAIR	External	✓	onlyOwner
	setWBNB_BUSD_Pair	External	✓	onlyOwner
	getWBNB_TOKEN_PAIR	External		-
	getWBNB_BUSD_Pair	External		-

# Contract Flow



## Domain Info

<b>Domain Name</b>	world6game.com
<b>Registry Domain ID</b>	2647902325_DOMAIN_COM-VRSN
<b>Creation Date</b>	2021-10-15T00:37:43Z
<b>Updated Date</b>	2021-10-15T02:39:17Z
<b>Registry Expiry Date</b>	2022-10-15T00:37:43Z
<b>Registrar WHOIS Server</b>	whois.registrar.eu
<b>Registrar URL</b>	<a href="http://www.registrar.eu">http://www.registrar.eu</a>
<b>Registrar</b>	Hosting Concepts B.V. d/b/a Registrar.eu
<b>Registrar IANA ID</b>	1647

The domain was created 11 months before the creation of the audit. It will expire in about 1 month.

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

## Summary

The Smart Contract analysis reported one minor severity issue. The contract owner has the authority to transfer funds to the team's wallet. Other than that, the contract owner can access some admin functions that can not be used in a malicious way to disturb the users' transactions. There is also a fixed fee of 7%.



## Disclaimer

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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>