



Cyberscope

# Audit Report

## **World 6 Game**

September 2022

Type           BEP20

Network       BSC

Address       0x8dd435d3484AF2914a15463594e8DB1fd135e1B8

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## 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/0x8dd435d3484AF2914a15463594e8DB1fd135e1B8">https://bscscan.com/token/0x8dd435d3484AF2914a15463594e8DB1fd135e1B8</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<br><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 phase 1</b> | 15th September 2022<br><a href="https://github.com/cyberscope-io/audits/blob/main/w6g/v2/audit.pdf">https://github.com/cyberscope-io/audits/blob/main/w6g/v2/audit.pdf</a> |
| <b>Corrected phase 2</b> | 17th 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>            | b8622b4dfab0118abb4ed2b39ef07356da47380a56aa69f32e5cf58faaf08c9f |

## 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#L208   |
| <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#L171   |
| <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#L171,186 |
| <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#L233 |
| <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<br><br>Ownable.sol#L53,61<br><br>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<br><br>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<br><br>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

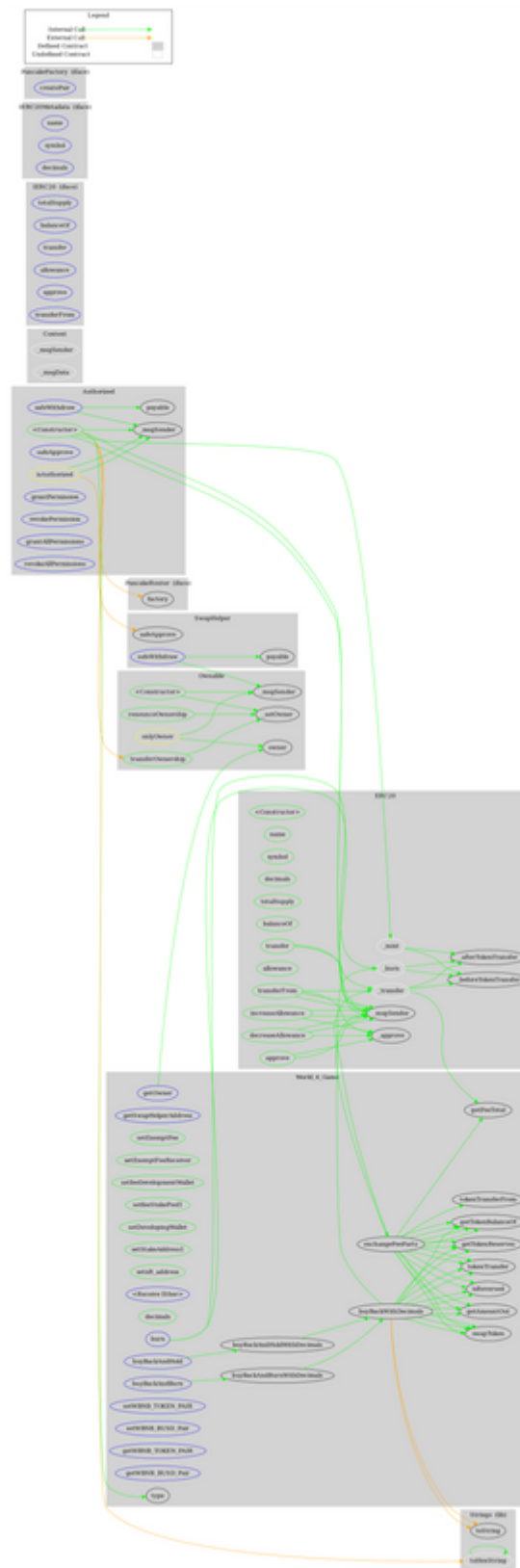
| Contract   | Type                 | Bases                                     |            |              |
|------------|----------------------|---|------------|--------------|
|            | Function Name        | Visibility                                | Mutability | Modifiers    |
| Authorized | 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,<br>IERC20,<br>IERC20Met<br>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 |
|                     | setfeeDevelopmentWallet    | Public            | ✓       | onlyOwner |
|                     | setfeeStakePool1           | Public            | ✓       | onlyOwner |
|                     | setDevelopingWallet        | Public            | ✓       | onlyOwner |
|                     | setStakeAddress1           | Public            | ✓       | onlyOwner |
|                     | setnft_address             | 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 9%.



## 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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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>