



Cyberscope

## Audit Report

# World Bet Token

August 2022

Type       BEP20

Network     BSC

Address     0xf88a40755d307dE135c7eb00499c2961b39FbC97

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## Contract Review

|                         |   |
|-------------------------|---|
| <b>Contract Name</b>    | WorldBetToken   |
| <b>Compiler Version</b> | v0.7.6+commit.7338295f  |
| <b>Optimization</b>     | 200 runs  |
| <b>Licence</b>          | Unlicense   |
| <b>Explorer</b>         | <a href="https://bscscan.com/token/0xf88a40755d307dE135c7eb00499c2961b39FbC97">https://bscscan.com/token/0xf88a40755d307dE135c7eb00499c2961b39FbC97</a> |
| <b>Symbol</b>           | WBT   |
| <b>Decimals</b>         | 18  |
| <b>Total Supply</b>     | 100,000,000   |
| <b>Domain</b>           | worldbet.club   |

## Source Files

|                     |  |
|---------------------|--|
| <b>Filename</b>     | <b>SHA256</b>  |
| <b>contract.sol</b> | 39fa81b2fc454e9272e4ed0ce422c1ed60df8eeab4b1ac2f784b47f5f21e0aab |

## Audit Updates

|                          |                  |
|--------------------------|------------------|
| <b>Initial Audit</b>     | 3rd August 2022  |
| <b>Corrected phase 1</b> | 5th August 2022  |
| <b>Corrected phase 2</b> | 8th August 2022  |
| <b>Corrected phase 3</b> | 14th August 2022 |

# 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  |

## ELFM - Exceed Limit Fees Manipulation

|             |                   |
|-------------|-------------------|
| Criticality | critical          |
| Location    | contract.sol#L942 |

### Description

The contract owner has the authority to increase over the allowed limit of 25%. The owner may take advantage of it by calling the `setTaxFee` function with a high percentage value.

```
function setTaxFee(uint256 _treasuryFee, uint256 _rewardFee, uint256 _burnFee,
uint256 _liquidityFee, uint256 _sellFee) external onlyOwner {
    require(treasuryFee.add(rewardFee).add(liquidityFee).add(burnFee) <= 25,
"Fees must be less than 25%");
    treasuryFee = _treasuryFee;
    rewardFee = _rewardFee;
    burnFee = _burnFee;
    liquidityFee = _liquidityFee;
    sellFee = _sellFee;
    totalFee = treasuryFee.add(rewardFee).add(liquidityFee).add(burnFee);
}
```

### Recommendation

The contract could embody a check for the maximum acceptable value.

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

| Severity | Code | Description                                |
|----------|------|--|
| ●        | STC  | Succeeded Transfer Check                   |
| ●        | L01  | Public Function could be Declared External |
| ●        | L02  | State Variables could be Declared Constant |
| ●        | L04  | Conformance to Solidity Naming Conventions |
| ●        | L05  | Unused State Variable                      |
| ●        | L09  | Dead Code Elimination                      |
| ●        | L13  | Divide before Multiply Operation           |

## STC - Succeeded Transfer Check

|                    |                   |
|--------------------|-------------------|
| <b>Criticality</b> | minor             |
| <b>Location</b>    | contract.sol#L760 |

### 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.

```
(bool success, ) = payable(treasuryReceiver).call{  
    value: amountETHToTreasuryAndReward.mul(treasuryFee).div(_currentFee),  
    gas: 30000  
}("");
```

### Recommendation

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



## L01 - Public Function could be Declared External

|                    |                                       |
|--------------------|---------------------------------------|
| <b>Criticality</b> | minor                                 |
| <b>Location</b>    | contract.sol#L483,487,491,510,523,528 |

### Description

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

```
transferOwnership  
renounceOwnership  
owner  
decimals  
symbol  
name
```

### Recommendation

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

## L02 - State Variables could be Declared Constant

**Criticality**

minor

**Location**

contract.sol#L574

### Description

Constant state variables should be declared constant to save gas.

```
antiTime
```

### 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#L38,272,274,305,915,935,936,942,958,977,981,985,543,544,545,548,571,597,598,599 |

### 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.

```
_totalSupply  
_lastAddLiquidityTime  
_autoAddLiquidity  
feeDenominator  
_isFeeExempt  
_decimals  
_symbol  
_name  
_address  
...
```

### Recommendation

Follow the Solidity naming convention.

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

## L05 - Unused State Variable

**Criticality**

minor

**Location**

contract.sol#L350

### Description

There are segments that contain unused state variables.

```
MAX_INT256
```

### Recommendation

Remove unused state variables.

## L07 - Missing Events Arithmetic

|                    |                   |
|--------------------|-------------------|
| <b>Criticality</b> | minor             |
| <b>Location</b>    | contract.sol#L942 |

### Description

Detected missing events for critical arithmetic parameters. There are functions that have no event emitted, so it is difficult to track off-chain changes.

```
treasuryFee = _treasuryFee
```

### Recommendation

Emit an event for critical parameter changes.

## L09 - Dead Code Elimination

**Criticality**

minor

**Location**

contract.sol#L378

### Description

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

```
abs
```

### Recommendation

Remove unused functions.

## L13 - Divide before Multiply Operation

**Criticality**

minor

**Location**

contract.sol#L967

### Description

Performing divisions before multiplications may cause lose of prediction.

```
liquidityBalance = _gonBalances[pair].div(_gonsPerFragment)
```

### Recommendation

The multiplications should be prior to the divisions.

# Contract Functions

| Contract                        | Type                         | Bases      |            |           |
|---------------------------------|------------------------------|------------|------------|-----------|
|                                 | Function Name                | Visibility | Mutability | Modifiers |
|                                 |                              |            |            |           |
| <b>IPancakeSwap<br/>Factory</b> | Interface                    |            |            |           |
|                                 | feeTo                        | External   |            | -         |
|                                 | feeToSetter                  | External   |            | -         |
|                                 | getPair                      | External   |            | -         |
|                                 | allPairs                     | External   |            | -         |
|                                 | allPairsLength               | External   |            | -         |
|                                 | createPair                   | External   | ✓          | -         |
|                                 | setFeeTo                     | External   | ✓          | -         |
|                                 | setFeeToSetter               | External   | ✓          | -         |
|                                 |                              |            |            |           |
| <b>IPancakeSwap<br/>Router</b>  | Interface                    |            |            |           |
|                                 | factory                      | External   |            | -         |
|                                 | WETH                         | External   |            | -         |
|                                 | addLiquidity                 | External   | ✓          | -         |
|                                 | addLiquidityETH              | External   | Payable    | -         |
|                                 | removeLiquidity              | External   | ✓          | -         |
|                                 | removeLiquidityETH           | External   | ✓          | -         |
|                                 | removeLiquidityWithPermit    | External   | ✓          | -         |
|                                 | removeLiquidityETHWithPermit | External   | ✓          | -         |
|                                 | swapExactTokensForTokens     | External   | ✓          | -         |
|                                 | swapTokensForExactTokens     | External   | ✓          | -         |
|                                 | swapExactETHForTokens        | External   | Payable    | -         |
|                                 | swapTokensForExactETH        | External   | ✓          | -         |
|                                 | swapExactTokensForETH        | External   | ✓          | -         |
|                                 | swapETHForExactTokens        | External   | Payable    | -         |
|                                 | quote                        | External   |            | -         |
|                                 | getAmountOut                 | External   |            | -         |



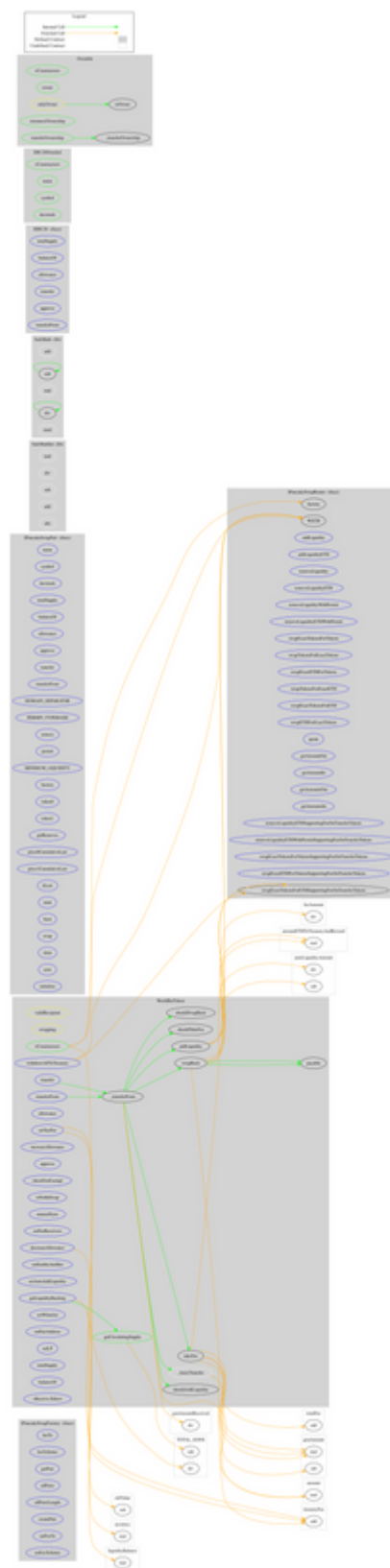
|                         |   |          |         |   |
|-------------------------|---|----------|---------|---|
|                         | getAmountIn   | External |         | - |
|                         | getAmountsOut   | External |         | - |
|                         | getAmountsIn  | External |         | - |
|                         | removeLiquidityETHSupportingFeeOnTransferTokens           | External | ✓       | - |
|                         | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External | ✓       | - |
|                         | swapExactTokensForTokensSupportingFeeOnTransferTokens     | External | ✓       | - |
|                         | swapExactETHForTokensSupportingFeeOnTransferTokens        | External | Payable | - |
|                         | swapExactTokensForETHSupportingFeeOnTransferTokens        | External | ✓       | - |
|                         |   |          |         |   |
| <b>IPancakeSwapPair</b> | Interface   |          |         |   |
|                         | name  | External |         | - |
|                         | symbol  | External |         | - |
|                         | decimals  | External |         | - |
|                         | totalSupply   | External |         | - |
|                         | balanceOf   | External |         | - |
|                         | allowance   | External |         | - |
|                         | approve   | External | ✓       | - |
|                         | transfer  | External | ✓       | - |
|                         | transferFrom  | External | ✓       | - |
|                         | DOMAIN_SEPARATOR  | External |         | - |
|                         | PERMIT_TYPEHASH   | External |         | - |
|                         | nonces  | External |         | - |
|                         | permit  | External | ✓       | - |
|                         | MINIMUM_LIQUIDITY   | External |         | - |
|                         | factory   | External |         | - |
|                         | token0  | External |         | - |
|                         | token1  | External |         | - |
|                         | getReserves   | External |         | - |
|                         | price0CumulativeLast                                      | External |         | - |
|                         | price1CumulativeLast                                      | External |         | - |
|                         | kLast   | External |         | - |

|                      |                |          |   |   |
|----------------------|----------------|----------|---|---|
|                      | mint           | External | ✓ | - |
|                      | burn           | External | ✓ | - |
|                      | swap           | External | ✓ | - |
|                      | skim           | External | ✓ | - |
|                      | sync           | External | ✓ | - |
|                      | initialize     | External | ✓ | - |
|                      |                |          |   |   |
| <b>SafeMathInt</b>   | Library        |          |   |   |
|                      | mul            | Internal |   |   |
|                      | div            | Internal |   |   |
|                      | sub            | Internal |   |   |
|                      | add            | Internal |   |   |
|                      | abs            | Internal |   |   |
|                      |                |          |   |   |
| <b>SafeMath</b>      | Library        |          |   |   |
|                      | add            | Internal |   |   |
|                      | sub            | Internal |   |   |
|                      | sub            | Internal |   |   |
|                      | mul            | Internal |   |   |
|                      | div            | Internal |   |   |
|                      | div            | Internal |   |   |
|                      | mod            | Internal |   |   |
|                      |                |          |   |   |
| <b>IERC20</b>        | Interface      |          |   |   |
|                      | totalSupply    | External |   | - |
|                      | balanceOf      | External |   | - |
|                      | allowance      | External |   | - |
|                      | transfer       | External | ✓ | - |
|                      | approve        | External | ✓ | - |
|                      | transferFrom   | External | ✓ | - |
|                      |                |          |   |   |
| <b>ERC20Detailed</b> | Implementation | IERC20   |   |   |
|                      | <Constructor>  | Public   | ✓ | - |
|                      | name           | Public   |   | - |
|                      | symbol         | Public   |   | - |

|                      |                       |                        |   |                       |
|----------------------|-----------------------|------------------------|---|-----------------------|
|                      | decimals              | Public                 |   | -                     |
|                      |                       |                        |   |                       |
| <b>Ownable</b>       | Implementation        |                        |   |                       |
|                      | <Constructor>         | Public                 | ✓ | -                     |
|                      | owner                 | Public                 |   | -                     |
|                      | isOwner               | Public                 |   | -                     |
|                      | renounceOwnership     | Public                 | ✓ | onlyOwner             |
|                      | transferOwnership     | Public                 | ✓ | onlyOwner             |
|                      | _transferOwnership    | Internal               | ✓ |                       |
|                      |                       |                        |   |                       |
| <b>WorldBetToken</b> | Implementation        | ERC20Detailed, Ownable |   |                       |
|                      | <Constructor>         | Public                 | ✓ | ERC20Detailed Ownable |
|                      | transfer              | External               | ✓ | validRecipient        |
|                      | transferFrom          | External               | ✓ | validRecipient        |
|                      | _basicTransfer        | Internal               | ✓ |                       |
|                      | _transferFrom         | Internal               | ✓ |                       |
|                      | takeFee               | Internal               | ✓ |                       |
|                      | swapBack              | Internal               | ✓ | swapping              |
|                      | addLiquidity          | Internal               | ✓ | swapping              |
|                      | withdrawAllToTreasury | External               | ✓ | swapping onlyOwner    |
|                      | shouldTakeFee         | Internal               |   |                       |
|                      | shouldSwapBack        | Internal               |   |                       |
|                      | shouldAddLiquidity    | Internal               |   |                       |
|                      | allowance             | External               |   | -                     |
|                      | decreaseAllowance     | External               | ✓ | -                     |
|                      | increaseAllowance     | External               | ✓ | -                     |
|                      | approve               | External               | ✓ | -                     |
|                      | checkFeeExempt        | External               |   | -                     |
|                      | getCirculatingSupply  | Public                 |   | -                     |
|                      | isNotInSwap           | External               |   | -                     |
|                      | manualSync            | External               | ✓ | -                     |
|                      | setFeeReceivers       | External               | ✓ | onlyOwner             |
|                      | setTaxFee             | External               | ✓ | onlyOwner             |

|  |                     |          |         |           |
|--|---------------------|----------|---------|-----------|
|  | setEnableAntiBot    | External | ✓       | onlyOwner |
|  | setAutoAddLiquidity | External | ✓       | onlyOwner |
|  | getLiquidityBacking | External |         | -         |
|  | setWhitelist        | External | ✓       | onlyOwner |
|  | setPairAddress      | External | ✓       | onlyOwner |
|  | setLP               | External | ✓       | onlyOwner |
|  | totalSupply         | External |         | -         |
|  | balanceOf           | External |         | -         |
|  | <Receive Ether>     | External | Payable | -         |

# Contract Flow



## Domain Info

|                               |   |
|-------------------------------|---|
| <b>Domain Name</b>            | worldbet.club   |
| <b>Registry Domain ID</b>     | DFC42EC8E80884B30898C5E6B85B46FAF-GDREG                         |
| <b>Creation Date</b>          | 2022-07-29T03:57:21Z  |
| <b>Updated Date</b>           | 2022-08-03T03:57:21Z  |
| <b>Registry Expiry Date</b>   | 2023-07-29T03:57:21Z  |
| <b>Registrar WHOIS Server</b> | whois.namecheap.com   |
| <b>Registrar URL</b>          | <a href="http://www.namecheap.com">http://www.namecheap.com</a> |
| <b>Registrar</b>              | NameCheap, Inc.   |
| <b>Registrar IANA ID</b>      | 1068  |

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

The Smart Contract analysis reported one critical severity issue. The contract owner has the authority to manipulate the fees. A multi-wallet signing pattern will provide security against potential hacks. Temporarily locking the contract or renouncing ownership will eliminate all the contract threats.

# 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>