Cyberscope

# Audit Report

# Platypus Inu

April 2022

| | |
|---|---|
| Type | BEP20 |
| Network | BSC |
| Address | 0x2860Ae0f7E871cd73BfB9eC5bD7DdE0058F59CBC |
| Audited by | © cyberscope |

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# Contract Review

| | |
|---|---|
| **Contract Name** | PlatypusInu |
| **Compiler Version** | v0.8.13+commit.abaa5c0e |
| **Optimization** | 200 runs |
| **Licence** | MIT |
| **Explorer** | https://bscscan.com/token/0x2860Ae0f7E871cd73BfB9eC5bD7DdE0058F59CBC |
| **Symbol** | PLAT |
| **Decimals** | 18 |
| **Total Supply** | 1,000,000,000 |
| **Domain** | |

# Source Files

| **Filename** | **SHA256** |
|---|---|
| **contract.sol** | f9f9063cab6af07e2f278bf2819a6b278a37068eec2d3a40e235543aa7e66bfe |

# Audit Updates

| | |
|---|---|
| **Initial Audit** | 21st April 2022 |
| **Corrected** | 23rd April 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 |

# 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 |
| | L11 | Unnecessary Boolean equality |
| | L13 | Divide before Multiply Operation |
| | L15 | Local Scope Variable Shadowing |

# L01 - Public Function could be Declared External

| | |
|---|---|
| **Criticality** | minor |
| **Location** | contract.sol#L709,717,734,741,754,772,785,802,825,848,871,1030,1039,1081,1089 |

## Description

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

```
setEnableFee
setFeeWallet
transferOwnership
renounceOwnership
decreaseAllowance
increaseAllowance
transferFrom
approve
allowance
...
```

## Recommendation

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

# L02 - State Variables could be Declared Constant

| | |
|---|---|
| **Criticality** | minor |
| **Location** | contract.sol#L1059,1054 |

## Description

Constant state variables should be declared constant to save gas.

```
_taxfee
TOTAL_SUPPLY
```

## Recommendation

Add the constant attribute to state variables that never change.

# L04 - Conformance to Solidity Naming Conventions

| | |
|---|---|
| **Criticality** | minor |
| **Location** | contract.sol#L97,1065,1066,1067,1068,1053,1054,1055,1056,1059 |

## 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.

```
TOTAL_SUPPLY
_taxWallet
_isTaxFee
_taxfee
_isInit
_burn
_team
_marketingAddr
_preSale
...
```

## 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#L313,323,342,356,402,412,375,385,264,288,429,935,973 |

## Description

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

```
_setupDecimals
_burn
verifyCallResult
sendValue
isContract
functionStaticCall
functionDelegateCall
functionCallWithValue
functionCall
...
```

## Recommendation

Remove unused functions.

# L11 - Unnecessary Boolean equality

| | |
|---|---|
| **Criticality** | minor |
| **Location** | contract.sol#L1093 |

## Description

The comparison to boolean constants is redundant. Boolean constants can be used directly and do not need to be compared to true or false.

```
recipient != address(0) && _taxWallet != address(0) && _isTaxFee == true
```

## Recommendation

Remove the equality to the boolean constant.

# L13 - Divide before Multiply Operation

| | |
|---|---|
| **Criticality** | minor |
| **Location** | contract.sol#L1093 |

## Description

Performing divisions before multiplications may cause lose of prediction.

```
_mfee = amount.div(100).mul(_taxfee)
```

## Recommendation

The multiplications should be prior to the divisions.

# L15 - Local Scope Variable Shadowing

| | |
|---|---|
| **Criticality** | minor |
| **Location** | contract.sol#L1060,1068 |

## Description

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

```
_burn
_symbol
_name
```

## Recommendation

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

# Contract Functions

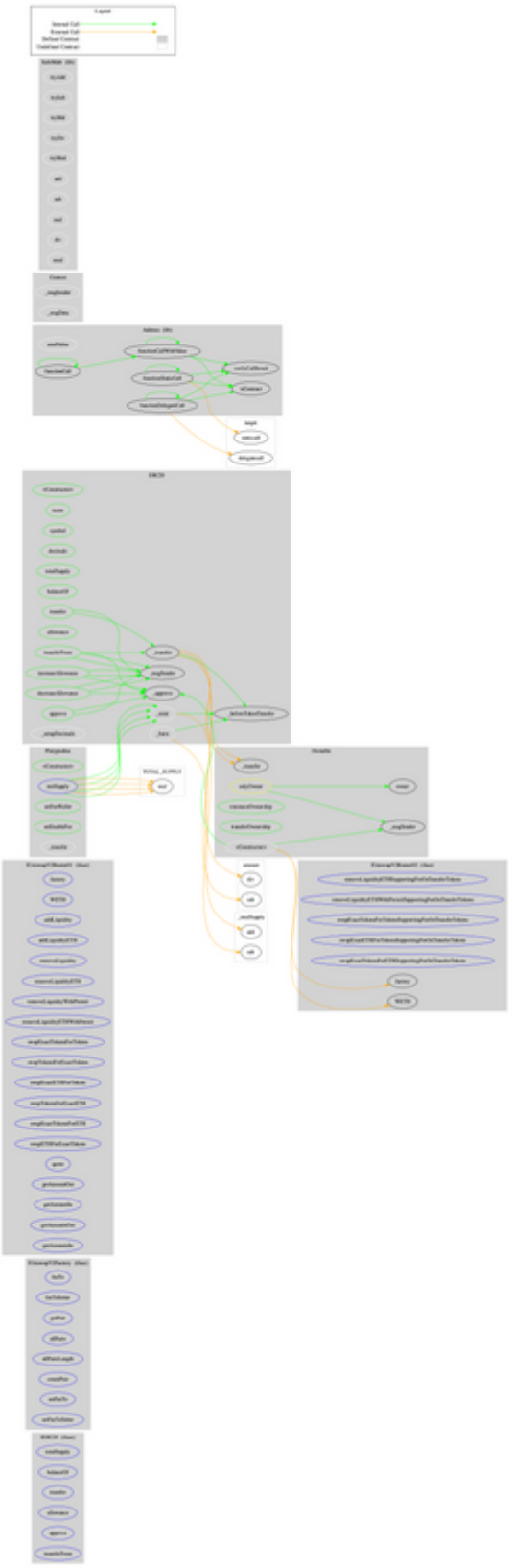
| Contract | Type | Bases | | |
|---|---|---|---|---|
| | Function Name | Visibility | Mutability | Modifiers |
| | | | | |
| IERC20 | Interface | | | |
| | totalSupply | External | | - |
| | balanceOf | External | | - |
| | transfer | External | ✓ | - |
| | allowance | External | | - |
| | approve | External | ✓ | - |
| | transferFrom | External | ✓ | - |
| | | | | |
| IUniswapV2Factory | Interface | | | |
| | feeTo | External | | - |
| | feeToSetter | External | | - |
| | getPair | External | | - |
| | allPairs | External | | - |
| | allPairsLength | External | | - |
| | createPair | External | ✓ | - |
| | setFeeTo | External | ✓ | - |
| | setFeeToSetter | External | ✓ | - |
| | | | | |
| IUniswapV2Router01 | 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 | | - |
| | | | | |
| **IUniswapV2Router02** | Interface | IUniswapV2Router01 | | |
| | removeLiquidityETHSupportingFeeOnTransferTokens | External | ✓ | - |
| | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External | ✓ | - |
| | swapExactTokensForTokensSupportingFeeOnTransferTokens | External | ✓ | - |
| | swapExactETHForTokensSupportingFeeOnTransferTokens | External | Payable | - |
| | swapExactTokensForETHSupportingFeeOnTransferTokens | 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 | | |
| | | | | |
| **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 | | |
| | | | | |
| **ERC20** | Implementation | Context, IERC20 | | |
| | <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 | ✓ | |
| | _setupDecimals | Internal | ✓ | |
| | _beforeTokenTransfer | Internal | ✓ | |
| | | | | |
| **Ownable** | Implementation | Context | | |
| | <Constructor> | Internal | ✓ | |
| | owner | Public | | - |
| | renounceOwnership | Public | ✓ | onlyOwner |
| | transferOwnership | Public | ✓ | onlyOwner |
| | | | | |
| **PlatypusInu** | Implementation | ERC20, Ownable | | |
| | <Constructor> | Public | ✓ | ERC20 |
| | initSupply | External | ✓ | onlyOwner |
| | setFeeWallet | Public | ✓ | onlyOwner |
| | setEnableFee | Public | ✓ | onlyOwner |
| | _transfer | Internal | ✓ | |

# Contract Flow



# Domain Info

| | |
|---|---|
| **Domain Name** | platypusinu.com |
| **Registry Domain ID** | 2690629137_DOMAIN_COM-VRSN |
| **Creation Date** | 2022-04-20T15:48:13Z |
| **Updated Date** | 2022-04-20T15:48:14Z |
| **Registry Expiry Date** | 2024-04-20T15:48:13Z |
| **Registrar WHOIS Server** | whois.PublicDomainRegistry.com |
| **Registrar URL** | http://www.publicdomainregistry.com |
| **Registrar** | PDR Ltd. d/b/a PublicDomainRegistry.com |
| **Registrar IANA ID** | 303 |

The domain has been created about two days before the creation of the audit. It will expire in almost 2 years.

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

# Summary

Platypus Inu 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. The fees are fixed to 2%.

# 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