



Cyberscope

Audit Report

MyBricks

March 2023

Type BEP20

Network BSC

Address 0xcfc110164BF0e3Ed7859a6750b3326B861AEE028E

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Review

| | |
|------------------|---|
| Contract Name | MyUSD |
| Compiler Version | v0.6.12+commit.27d51765 |
| Optimization | 200 runs |
| Explorer | https://bscscan.com/address/0xcf110164bf0e3ed7859a6750b3326b861aee028e |
| Address | 0xcf110164bf0e3ed7859a6750b3326b861aee028e |
| Network | BSC |
| Symbol | MyUSD |
| Decimals | 18 |
| Total Supply | 100 |

Audit Updates

| | |
|---------------|-------------|
| Initial Audit | 17 Mar 2023 |
|---------------|-------------|

Source Files

| | |
|-----------|--|
| Filename | SHA256 |
| MyUSD.sol | 2e7b09b624528a048177925a6a35bfeac e7c8af6c312aa6188a13a2fe1f00c4f |

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 | Unresolved |
| ● | ULTW | Transfers Liquidity to Team Wallet | Passed |
| ● | MT | Mints Tokens | Unresolved |
| ● | BT | Burns Tokens | Passed |
| ● | BC | Blacklists Addresses | Passed |

ELFM - Exceeds Fees Limit

| | |
|-------------|-----------------|
| Criticality | Critical |
| Location | MyUSD.sol#L1503 |
| Status | Unresolved |

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 `setTaxFeePercent` function with a high percentage value.

```
function setSellFee(uint256 _value) external {  
    require(msg.sender == taxCollectorAddress, "!fee");  
    require(_value != 0, "zero");  
    sellFee = _value;  
}
```

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. Some suggestions are:

- Introduce a time-locker mechanism with a reasonable delay.
- Introduce a multi-sign wallet so that many addresses will confirm the action.
- Introduce a governance model where users will vote about the actions.
- Renouncing the ownership will eliminate the threats but it is non-reversible.

MT - Mints Tokens

| | |
|-------------|----------------------|
| Criticality | Critical |
| Location | MyUSD.sol#L1528,1599 |
| Status | Unresolved |

Description

The contract minters have the authority to mint tokens. The minters may take advantage of it by calling the `mint` and/or `distributeReward` functions. As a result, the contract tokens will be highly inflated.

```
function mint(address recipient_, uint256 amount_) public onlyMinter returns (bool)
{
    uint256 balanceBefore = balanceOf(recipient_);
    _mint(recipient_, amount_);
    uint256 balanceAfter = balanceOf(recipient_);

    return balanceAfter > balanceBefore;
}
...
function distributeReward(
    address _myUSDPool
) external onlyOperator {
    require(!rewardPoolDistributed, "only can distribute once");
    require(_myUSDPool != address(0), "!_myUSDPool");
    rewardPoolDistributed = true;
    _mint(_myUSDPool, INITIAL_MyUSD_POOL_DISTRIBUTION);
}
```

Recommendation

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. Some suggestions are:

- Introduce a time-locker mechanism with a reasonable delay.
- Introduce a multi-sign wallet so that many addresses will confirm the action.
- Introduce a governance model where users will vote about the actions.
- Renouncing the ownership will eliminate the threats but it is non-reversible.

Diagnostics

● Critical ● Medium ● Minor / Informative

| Severity | Code | Description | Status |
|----------|------|--|------------|
| ● | RSK | Redundant Storage Keyword | Unresolved |
| ● | IDI | Immutable Declaration Improvement | Unresolved |
| ● | L02 | State Variables could be Declared Constant | Unresolved |
| ● | L04 | Conformance to Solidity Naming Conventions | Unresolved |
| ● | L07 | Missing Events Arithmetic | Unresolved |
| ● | L08 | Tautology or Contradiction | Unresolved |
| ● | L09 | Dead Code Elimination | Unresolved |
| ● | L12 | Using Variables before Declaration | Unresolved |
| ● | L14 | Uninitialized Variables in Local Scope | Unresolved |
| ● | L18 | Multiple Pragma Directives | Unresolved |
| ● | L20 | Succeeded Transfer Check | Unresolved |

RSK - Redundant Storage Keyword

| | |
|--------------------|---------------------|
| Criticality | Minor / Informative |
| Location | MyUSD.sol#L1290 |
| Status | Unresolved |

Description

The contract uses the `storage` keyword in a view function. The `storage` keyword is used to persist data on the contract's storage. View functions are functions that do not modify the state of the contract and do not perform any actions that cost gas (such as sending a transaction). As a result, the use of the `storage` keyword in view functions is redundant.

```
Role storage rol
```

Recommendation

It is generally considered good practice to avoid using the `storage` keyword in view functions, because it is unnecessary and can make the code less readable.

IDI - Immutable Declaration Improvement

| | |
|--------------------|----------------------|
| Criticality | Minor / Informative |
| Location | MyUSD.sol#L1413,1414 |
| Status | Unresolved |

Description

The contract is using variables that initialize them only in the constructor. The other functions are not mutating the variables. These variables are not defined as `immutable`.

```
uniswapV2Route  
pai
```

Recommendation

By declaring a variable as immutable, the Solidity compiler is able to make certain optimizations. This can reduce the amount of storage and computation required by the contract, and make it more gas-efficient.

L02 - State Variables could be Declared Constant

| | |
|--------------------|---------------------|
| Criticality | Minor / Informative |
| Location | MyUSD.sol#L1379 |
| Status | Unresolved |

Description

State variables can be declared as constant using the constant keyword. This means that the value of the state variable cannot be changed after it has been set. Additionally, the constant variables decrease gas consumption of the corresponding transaction.

```
uint256 public minSwapAmount = 1000000000000000000
```

Recommendation

Constant state variables can be useful when the contract wants to ensure that the value of a state variable cannot be changed by any function in the contract. This can be useful for storing values that are important to the contract's behavior, such as the contract's address or the maximum number of times a certain function can be called. The team is advised to add the constant keyword to state variables that never change.

L04 - Conformance to Solidity Naming Conventions

| | |
|--------------------|---|
| Criticality | Minor / Informative |
| Location | MyUSD.sol#L974,975,992,1047,1352,1360,1383,1438,1442,1455,1462,1474,1486,1491,1497,1503,1510,1516,1600,1610,1611,1612 |
| Status | Unresolved |

Description

The Solidity style guide is a set of guidelines for writing clean and consistent Solidity code. Adhering to a style guide can help improve the readability and maintainability of the Solidity code, making it easier for others to understand and work with.

The followings are a few key points from the Solidity style guide:

1. Use camelCase for function and variable names, with the first letter in lowercase (e.g., myVariable, updateCounter).
2. Use PascalCase for contract, struct, and enum names, with the first letter in uppercase (e.g., MyContract, UserStruct, ErrorEnum).
3. Use uppercase for constant variables and enums (e.g., MAX_VALUE, ERROR_CODE).
4. Use indentation to improve readability and structure.
5. Use spaces between operators and after commas.
6. Use comments to explain the purpose and behavior of the code.
7. Keep lines short (around 120 characters) to improve readability.

```
function DOMAIN_SEPARATOR() external view returns (bytes32);
function PERMIT_TYPEHASH() external pure returns (bytes32);
function MINIMUM_LIQUIDITY() external pure returns (uint);
function WETH() external pure returns (address);
uint256 public constant INITIAL_MyUSD_POOL_DISTRIBUTION = 100000 ether
address public MyUSDOracle
IERC20 USDC = IERC20(0x8AC76a51cc950d9822D68b83fE1Ad97B32Cd580d)
address _address
uint8 _index
uint256 _value
uint256 _burnThreshold
bool _value
address _MyUSDOracle
address _taxOffice

...
```

Recommendation

By following the Solidity naming convention guidelines, the codebase increased the readability, maintainability, and makes it easier to work with.

Find more information on the Solidity documentation

<https://docs.soliditylang.org/en/v0.8.17/style-guide.html#naming-convention>.

L07 - Missing Events Arithmetic

| | |
|--------------------|---------------------|
| Criticality | Minor / Informative |
| Location | MyUSD.sol#L1506 |
| Status | Unresolved |

Description

Events are a way to record and log information about changes or actions that occur within a contract. They are often used to notify external parties or clients about events that have occurred within the contract, such as the transfer of tokens or the completion of a task.

It's important to carefully design and implement the events in a contract, and to ensure that all required events are included. It's also a good idea to test the contract to ensure that all events are being properly triggered and logged.

```
sellFee = _value
```

Recommendation

By including all required events in the contract and thoroughly testing the contract's functionality, the contract ensures that it performs as intended and does not have any missing events that could cause issues with its arithmetic.

L08 - Tautology or Contradiction

| | |
|--------------------|----------------------|
| Criticality | Minor / Informative |
| Location | MyUSD.sol#L1443,1456 |
| Status | Unresolved |

Description

A tautology is a logical statement that is always true, regardless of the values of its variables. A contradiction is a logical statement that is always false, regardless of the values of its variables.

Using tautologies or contradictions can lead to unintended behavior and can make the code harder to understand and maintain. It is generally considered good practice to avoid tautologies and contradictions in the code.

```
require(_index >= 0, "Index has to be higher than 0")
```

Recommendation

The team is advised to carefully consider the logical conditions is using in the code and ensure that it is well-defined and make sense in the context of the smart contract.

L09 - Dead Code Elimination

| | |
|--------------------|---------------------------------|
| Criticality | Minor / Informative |
| Location | MyUSD.sol#L599,671,678,686,1466 |
| Status | Unresolved |

Description

In Solidity, dead code is code that is written in the contract, but is never executed or reached during normal contract execution. Dead code can occur for a variety of reasons, such as:

- Conditional statements that are always false.
- Functions that are never called.
- Unreachable code (e.g., code that follows a return statement).

Dead code can make a contract more difficult to understand and maintain, and can also increase the size of the contract and the cost of deploying and interacting with it.

```
function _setupDecimals(uint8 decimals_) internal virtual {
    _decimals = decimals_;
}

function max(uint256 a, uint256 b) internal pure returns (uint256) {
    return a >= b ? a : b;
    ...
    return a < b ? a : b;
}

function average(uint256 a, uint256 b) internal pure returns (uint256) {
    // (a + b) / 2 can overflow, so we distribute
    return (a / 2) + (b / 2) + ((a % 2 + b % 2) / 2);
}

...
```

Recommendation

To avoid creating dead code, it's important to carefully consider the logic and flow of the contract and to remove any code that is not needed or that is never executed. This can help improve the clarity and efficiency of the contract.

L12 - Using Variables before Declaration

| | |
|--------------------|---------------------|
| Criticality | Minor / Informative |
| Location | MyUSD.sol#L1467 |
| Status | Unresolved |

Description

The contract is using a variable before the declaration. This is usually happening either if it has not been declared yet or if the variable has been declared in a different scope. It is not a good practice to use a local variable before it has been declared.

```
uint144 _price
```

Recommendation

By declaring local variables before using them, contract ensures that it operates correctly. It's important to be aware of this rule when working with local variables, as using a variable before it has been declared can lead to unexpected behavior and can be difficult to debug.

L14 - Uninitialized Variables in Local Scope

| | |
|--------------------|----------------------|
| Criticality | Minor / Informative |
| Location | MyUSD.sol#L1467,1560 |
| Status | Unresolved |

Description

Using an uninitialized local variable can lead to unpredictable behavior and potentially cause errors in the contract. It's important to always initialize local variables with appropriate values before using them.

```
uint144 _price  
uint256 feeAmount
```

Recommendation

By initializing local variables before using them, the contract ensures that the functions behave as expected and avoid potential issues.

L18 - Multiple Pragma Directives

| | |
|--------------------|--|
| Criticality | Minor / Informative |
| Location | MyUSD.sol#L3,27,104,318,621,662,693,853,920,957,1010,1042,1251 |
| Status | Unresolved |

Description

If the contract includes multiple conflicting pragma directives, it may produce unexpected errors. To avoid this, it's important to include the correct pragma directive at the top of the contract and to ensure that it is the only pragma directive included in the contract.

```
pragma solidity >=0.6.0 <0.8.0;  
pragma solidity 0.6.12;  
pragma solidity >=0.5.0;  
pragma solidity >=0.6.2;
```

Recommendation

It is important to include only one pragma directive at the top of the contract and to ensure that it accurately reflects the version of Solidity that the contract is written in.

By including all required compiler options and flags in a single pragma directive, the potential conflicts could be avoided and ensure that the contract can be compiled correctly.

L20 - Succeeded Transfer Check

| | |
|--------------------|---------------------|
| Criticality | Minor / Informative |
| Location | MyUSD.sol#L1614 |
| Status | Unresolved |

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.

```
_token.transfer(_to, _amount)
```

Recommendation

The contract should check if the result of the transfer methods is successful. The team is advised to check the SafeERC20 library from the [Openzeppelin library](#).

Functions Analysis

| Contract | Type | Bases | | |
|-----------------|----------------|------------|------------|-----------|
| | Function Name | Visibility | Mutability | Modifiers |
| | | | | |
| Context | Implementation | | | |
| | _msgSender | Internal | | |
| | _msgData | Internal | | |
| | | | | |
| IERC20 | Interface | | | |
| | totalSupply | External | | - |
| | balanceOf | External | | - |
| | transfer | External | ✓ | - |
| | allowance | External | | - |
| | approve | External | ✓ | - |
| | transferFrom | External | ✓ | - |
| | | | | |
| 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 | | |
| | | 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 | ✓ | |
| | | | | |
| ERC20Burnable | Implementation | Context, ERC20 | | |
| | burn | Public | ✓ | - |
| | burnFrom | Public | ✓ | - |
| | | | | |
| Math | Library | | | |
| | max | Internal | | |

| | | | | |
|-----------------------|-------------------|---------------------|---|-----------|
| | min | Internal | | |
| | average | Internal | | |
| | | | | |
| SafeMath8 | Library | | | |
| | add | Internal | | |
| | sub | Internal | | |
| | sub | Internal | | |
| | mul | Internal | | |
| | div | Internal | | |
| | div | Internal | | |
| | mod | Internal | | |
| | mod | Internal | | |
| | | | | |
| Ownable | Implementation | Context | | |
| | | Internal | ✓ | |
| | owner | Public | | - |
| | renounceOwnership | Public | ✓ | onlyOwner |
| | transferOwnership | Public | ✓ | onlyOwner |
| | | | | |
| Operator | Implementation | Context, Ownable | | |
| | | Internal | ✓ | |
| | operator | Public | | - |
| | isOperator | Public | | - |
| | transferOperator | Public | ✓ | onlyOwner |
| | _transferOperator | Internal | ✓ | |
| | | | | |
| IUniswapV2Pair | 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 | ✓ | - |
| | | | | |
| 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 | ✓ | - |
| | | | | |
| IOracle | Interface | | | |
| | update | External | ✓ | - |
| | consult | External | | - |
| | twap | External | | - |
| | | | | |
| Roles | Library | | | |
| | add | Internal | ✓ | |
| | remove | Internal | ✓ | |
| | has | Internal | | |
| | | | | |
| MinterRole | Implementation | | | |
| | | Public | ✓ | - |
| | isMinter | Public | | - |
| | addMinter | Public | ✓ | onlyMinter |
| | removeMinter | Public | ✓ | onlyMinter |
| | renounceMinter | Public | ✓ | - |
| | _addMinter | Internal | ✓ | |
| | _removeMinter | Internal | ✓ | |
| | | | | |
| MyUSD | Implementation | ERC20Burnable, Operator, MinterRole | | |

| | | | | |
|--|------------------------------|----------|---|-----------------------------|
| | | Public | ✓ | ERC20 |
| | getTaxTiersTwapsCount | Public | | - |
| | getTaxTiersRatesCount | Public | | - |
| | isAddressExcluded | Public | | - |
| | setTaxTiersTwap | Public | ✓ | onlyTaxOffice |
| | setTaxTiersRate | Public | ✓ | onlyTaxOffice |
| | setBurnThreshold | Public | ✓ | onlyTaxOffice |
| | _getMyUSDPrice | Internal | | |
| | setTakeFee | Public | ✓ | onlyOperator |
| | enableAutoCalculateTax | Public | ✓ | onlyTaxOffice |
| | disableAutoCalculateTax | Public | ✓ | onlyTaxOffice |
| | setMyUSDOracle | Public | ✓ | onlyOperatorOr TaxOffice |
| | setTaxOffice | Public | ✓ | onlyOperatorOr TaxOffice |
| | setTaxCollectorAddress | Public | ✓ | onlyTaxOffice |
| | setSellFee | External | ✓ | - |
| | excludeAddress | Public | ✓ | onlyOperatorOr TaxOffice |
| | includeAddress | Public | ✓ | onlyOperatorOr TaxOffice |
| | mint | Public | ✓ | onlyMinter |
| | burn | Public | ✓ | - |
| | burnFrom | Public | ✓ | onlyOperator |
| | _transfer | Internal | ✓ | |
| | swapAndSendToFee | Private | ✓ | swapping |
| | isNotInSwap | External | | - |
| | distributeReward | External | ✓ | onlyOperator |
| | governanceRecoverUnsupported | External | ✓ | onlyOperator |

Inheritance Graph



Flow Graph

Summary

MyUSD contract implements a token mechanism. This audit investigates security issues, business logic concerns, and potential improvements. There are some functions that can be abused by the owner like manipulating the fees, and mint tokens. If the contract owner abuses the mint functionality, the contract will be highly inflated. A multi-wallet signing pattern will provide security against potential hacks. Temporarily locking the contract or renouncing ownership will eliminate all the contract threats.

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About Cyberscope

Cyberscope is a blockchain cybersecurity company that was founded with the vision to make web3.0 a safer place for investors and developers. Since its launch, it has worked with thousands of projects and is estimated to have secured tens of millions of investors' funds.

Cyberscope is one of the leading smart contract audit firms in the crypto space and has built a high-profile network of clients and partners.



The Cyberscope team

<https://www.cyberscope.io>