



Cyberscope

# Audit Report

## **GUTS INU**

April 2022

Type       BEP20

Network    BSC

Address     0x498b70f141763B1f06B33C50E9Ae5cD8f1058e31

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## Contract Review

|                         |   |
|-------------------------|---|
| <b>Contract Name</b>    | GUTSINUTK   |
| <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/0x498b70f141763B1f06B33C50E9Ae5cD8f1058e31">https://bscscan.com/token/0x498b70f141763B1f06B33C50E9Ae5cD8f1058e31</a> |
| <b>Symbol</b>           | GUTS  |
| <b>Decimals</b>         | 18  |
| <b>Total Supply</b>     | 1,000,000,000   |
| <b>Domain</b>           | gutsinu.net   |

## Audit Updates

|                      |                 |
|----------------------|-----------------|
| <b>Initial Audit</b> | 18th April 2022 |
| <b>Corrected</b>     |                 |

## Source Files

| Filename                      | SHA256   |
|-------------------------------|--|
| <b>Address.sol</b>            | 95ec5abe632a8bbde430a5cd751b7c862791898675e0d0e8862caf2084ecd1d9 |
| <b>Context.sol</b>            | 89cf3ea0215029b05f335b893845bfcfe3d32860a3ade8808fdd4ba02114e81c |
| <b>ERC20.sol</b>              | 1e0d13cffbf30acc1e8b5bf29456cd950b268d7576d4e1cd653d01f94c07b3ee |
| <b>GUTSINUTK.sol</b>          | d2920f664f12de89e2f9fab7448fdc1d808f239d06e3bf736b9913b8e77ede68 |
| <b>IERC20.sol</b>             | f4cd84fe07f21266ffaaf108bbaef56d6679af12ef13f53b5a12a42b4b1d1381 |
| <b>IUniswapV2Factory.sol</b>  | 2481db85ce86dd6c0aa7e2d69030b1e6b18d376ebf0b7d0e9085af860fb7d40d |
| <b>IUniswapV2Router01.sol</b> | 5563ddc2f75c2f6f31bc38b57794ceff4ea33de9f6fecb5d037f0691f16d53b2 |
| <b>IUniswapV2Router02.sol</b> | 3e72e65e02e79fbafe86b01c0c98fed4cfc65d67e30f7e0210eee1a0b485d3ff |
| <b>Ownable.sol</b>            | 613ab99c1d6f98fbdfda8e1c8038f395f25f8d5851e67593bd77cea71a35ba1f |
| <b>SafeMath.sol</b>           | f4b9881ce06892493d5d14743b0a9f90c8f8fae489baee7d08b8b2a496976549 |

# 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

|                    |                  |
|--------------------|------------------|
| <b>Criticality</b> | critical         |
| <b>Location</b>    | contract.sol#L50 |

### 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 `setTransactionFee` function with a high percentage value.

```
function setTransactionFee(uint256 fee) public onlyOwner {  
    _taxfee = fee;  
}
```

### 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                                |
|----------|------|--|
| ●        | L01  | Public Function could be Declared External |
| ●        | L02  | State Variables could be Declared Constant |
| ●        | L04  | Conformance to Solidity Naming Conventions |
| ●        | L07  | Missing Events Arithmetic                  |
| ●        | L13  | Divide before Multiply Operation           |
| ●        | L15  | Local Scope Variable Shadowing             |



## L01 - Public Function could be Declared External

|                    |                      |
|--------------------|----------------------|
| <b>Criticality</b> | minor                |
| <b>Location</b>    | GUTSINUTK.sol#L43,50 |

### Description

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

```
setTransactionFee  
setFeeWallet
```

### Recommendation

Use the external attribute for functions never called from the contract

## L02 - State Variables could be Declared Constant

**Criticality**

minor

**Location**

GUTSINUTK.sol#L20

### Description

Constant state variables should be declared constant to save gas.

```
TOTAL_SUPPLY
```

### Recommendation

Add the constant attribute to state variables that never change.

## L04 - Conformance to Solidity Naming Conventions

|                    |  |
|--------------------|--|
| <b>Criticality</b> | minor                                  |
| <b>Location</b>    | GUTSINUTK.sol#L26,27,28,29,15,16,17,20 |

### 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  
_feeWallet  
_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>

## L07 - Missing Events Arithmetic

**Criticality**

minor

**Location**

GUTSINUTK.sol#L50

### 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.

```
_taxfee = fee
```

### Recommendation

Emit an event for critical parameter changes.

## L13 - Divide before Multiply Operation

**Criticality**

minor

**Location**

GUTSINUTK.sol#L54

### 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**

GUTSINUTK.sol#L21,29

### Description

There 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 |
|                |                       |                    |            |           |
| <b>Address</b> | Library               |                    |            |           |
|                | isContract            | Internal           |            |           |
|                | sendValue             | Internal           | ✓          |           |
|                | functionCall          | Internal           | ✓          |           |
|                | functionCall          | Internal           | ✓          |           |
|                | functionCallWithValue | Internal           | ✓          |           |
|                | functionCallWithValue | Internal           | ✓          |           |
|                | functionStaticCall    | Internal           |            |           |
|                | functionStaticCall    | Internal           |            |           |
|                | functionDelegateCall  | Internal           | ✓          |           |
|                | functionDelegateCall  | Internal           | ✓          |           |
|                | verifyCallResult      | Internal           |            |           |
|                |                       |                    |            |           |
| <b>Context</b> | Implementation        |                    |            |           |
|                | _msgSender            | Internal           |            |           |
|                | _msgData              | Internal           |            |           |
|                |                       |                    |            |           |
| <b>ERC20</b>   | Implementation        | Context,<br>IERC20 |            |           |
|                | <Constructor>         | Public             | ✓          | -         |
|                | name                  | Public             |            | -         |
|                | symbol                | Public             |            | -         |
|                | decimals              | Public             |            | -         |
|                | totalSupply           | Public             |            | -         |
|                | balanceOf             | Public             |            | -         |
|                | transfer              | Public             | ✓          | -         |
|                | allowance             | Public             |            | -         |
|                | approve               | Public             | ✓          | -         |
|                | transferFrom          | Public             | ✓          | -         |

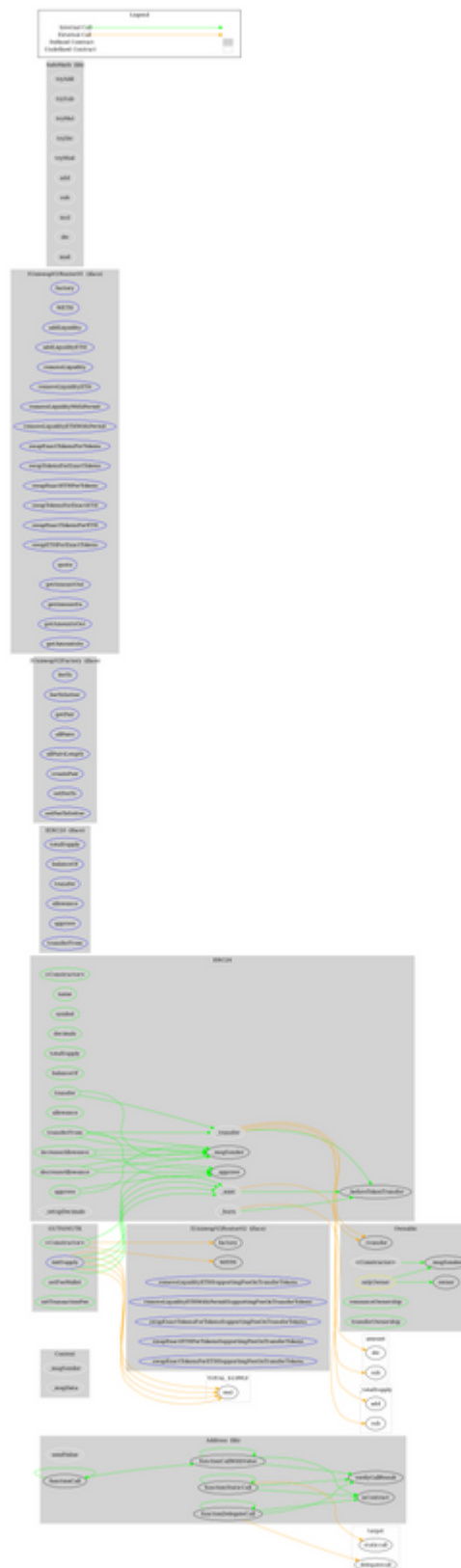
|                          |                      |                   |   |           |
|--------------------------|----------------------|-------------------|---|-----------|
|                          | increaseAllowance    | Public            | ✓ | -         |
|                          | decreaseAllowance    | Public            | ✓ | -         |
|                          | _transfer            | Internal          | ✓ |           |
|                          | _mint                | Internal          | ✓ |           |
|                          | _burn                | Internal          | ✓ |           |
|                          | _approve             | Internal          | ✓ |           |
|                          | _setupDecimals       | Internal          | ✓ |           |
|                          | _beforeTokenTransfer | Internal          | ✓ |           |
|                          |                      |                   |   |           |
| <b>GUTSINUTK</b>         | Implementation       | ERC20,<br>Ownable |   |           |
|                          | <Constructor>        | Public            | ✓ | ERC20     |
|                          | initSupply           | External          | ✓ | onlyOwner |
|                          | setFeeWallet         | Public            | ✓ | onlyOwner |
|                          | setTransactionFee    | Public            | ✓ | onlyOwner |
|                          | _transfer            | Internal          | ✓ |           |
|                          |                      |                   |   |           |
| <b>IERC20</b>            | Interface            |                   |   |           |
|                          | totalSupply          | External          |   | -         |
|                          | balanceOf            | External          |   | -         |
|                          | transfer             | External          | ✓ | -         |
|                          | allowance            | External          |   | -         |
|                          | approve              | External          | ✓ | -         |
|                          | transferFrom         | External          | ✓ | -         |
|                          |                      |                   |   |           |
| <b>IUniswapV2Factory</b> | Interface            |                   |   |           |
|                          | feeTo                | External          |   | -         |
|                          | feeToSetter          | External          |   | -         |
|                          | getPair              | External          |   | -         |
|                          | allPairs             | External          |   | -         |
|                          | allPairsLength       | External          |   | -         |
|                          | createPair           | External          | ✓ | -         |
|                          | setFeeTo             | External          | ✓ | -         |
|                          | setFeeToSetter       | External          | ✓ | -         |
|                          |                      |                   |   |           |



|                           |   |                    |         |   |
|---------------------------|---|--------------------|---------|---|
| <b>IUniswapV2Router01</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           |         | - |
|                           |   |                    |         |   |
| <b>IUniswapV2Router02</b> | Interface   | IUniswapV2Router01 |         |   |
|                           | removeLiquidityETHSupportingFeeOnTransferTokens           | External           | ✓       | - |
|                           | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External           | ✓       | - |
|                           | swapExactTokensForTokensSupportingFeeOnTransferTokens     | External           | ✓       | - |
|                           | swapExactETHForTokensSupportingFeeOnTransferTokens        | External           | Payable | - |
|                           | swapExactTokensForETHSupportingFeeOnTransferTokens        | External           | ✓       | - |
|                           |   |                    |         |   |
| <b>Ownable</b>            | Implementation  | Context            |         |   |
|                           | <Constructor>   | Internal           | ✓       |   |
|                           | owner   | Public             |         | - |

|                 |                   |          |   |           |
|-----------------|-------------------|----------|---|-----------|
|                 | renounceOwnership | Public   | ✓ | onlyOwner |
|                 | transferOwnership | Public   | ✓ | onlyOwner |
|                 |                   |          |   |           |
| <b>SafeMath</b> | 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 |   |           |

# Contract Flow



## Domain Info

|                               |   |
|-------------------------------|---|
| <b>Domain Name</b>            | gutsinu.net   |
| <b>Registry Domain ID</b>     | 2689835233_DOMAIN_NET-VRSN                                      |
| <b>Creation Date</b>          | 2022-04-17T05:19:38Z  |
| <b>Updated Date</b>           | 2022-04-17T05:19:39Z  |
| <b>Registry Expiry Date</b>   | 2023-04-17T05:19:38Z  |
| <b>Registrar WHOIS Server</b> | whois.hostinger.com   |
| <b>Registrar URL</b>          | <a href="http://www.hostinger.com">http://www.hostinger.com</a> |
| <b>Registrar</b>              | Hostinger, UAB  |
| <b>Registrar IANA ID</b>      | 1636  |

The domain has been created 1 day before the creation of the audit. It will expire in 12 months.

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

## Summary

GUTS INU is an interesting project that has a friendly and growing community. The Smart Contract analysis reported one critical issue. The contract owner can 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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## 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>