



Cyberscope

Audit Report

STEP'N 2.0

June 2022

Type BEP20

Network BSC

Address 0x3bfeaca80955ca3b12a752a3b330d561d99a4d0d

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Table of Contents

| | |
|---|-----------|
| Table of Contents | 1 |
| Contract Review | 3 |
| Source Files | 3 |
| Audit Updates | 3 |
| Contract Analysis | 4 |
| Contract Diagnostics | 5 |
| L01 - Public Function could be Declared External | 6 |
| Description | 6 |
| Recommendation | 6 |
| L04 - Conformance to Solidity Naming Conventions | 7 |
| Description | 7 |
| Recommendation | 7 |
| L05 - Unused State Variable | 8 |
| Description | 8 |
| Recommendation | 8 |
| L07 - Missing Events Arithmetic | 9 |
| Description | 9 |
| Recommendation | 9 |
| L09 - Dead Code Elimination | 10 |
| Description | 10 |
| Recommendation | 10 |
| L12 - Using Variables before Declaration | 11 |
| Description | 11 |
| Recommendation | 11 |
| L14 - Uninitialized Variables in Local Scope | 12 |
| Description | 12 |

| | |
|---|-----------|
| Recommendation | 12 |
| L15 - Local Scope Variable Shadowing | 13 |
| Description | 13 |
| Recommendation | 13 |
| Contract Functions | 14 |
| Contract Flow | 24 |
| Domain Info | 25 |
| Summary | 26 |
| Disclaimer | 27 |
| About Cyberscope | 28 |

Contract Review

| | |
|-------------------------|---|
| Contract Name | AntiBotBABYTOKEN |
| Compiler Version | v0.8.4+commit.c7e474f2 |
| Optimization | 200 runs |
| Licence | MIT |
| Explorer | https://bscscan.com/token/0x3bfeaca80955ca3b12a752a3b330d561d99a4d0d |
| Symbol | STEPN 2.0 |
| Decimals | 18 |
| Total Supply | 100,000,000 |
| Domain | gmttwo.com |

Source Files

| | |
|---------------------|--|
| Filename | SHA256 |
| contract.sol | e6bae5fb5e6f079b0c37bcb775b4495de429e2cd3499a9d9b3c07a192ea01713 |

Audit Updates

| | |
|----------------------|----------------|
| Initial Audit | 18th June 2022 |
| Corrected | |

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 |
| ● | L04 | Conformance to Solidity Naming Conventions |
| ● | L05 | Unused State Variable |
| ● | L07 | Missing Events Arithmetic |
| ● | L09 | Dead Code Elimination |
| ● | L12 | Using Variables before Declaration |
| ● | L14 | Uninitialized Variables in Local Scope |
| ● | L15 | Local Scope Variable Shadowing |

L01 - Public Function could be Declared External

| | |
|--------------------|--|
| Criticality | minor |
| Location | contract.sol#L203,211,228,235,254,262,273,291,319,338,553,561,1414,1422,1439,1465,1473,1484,1502,1530,1549,1771,1779,1946,1950,1961,1969,2131,2334,2183,2202,2351,2436,2484,2756,2781,2803,2836,2862,2902,2906,2914,2926 |

Description

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

```
isExcludedFromDividends  
dividendTokenBalanceOf  
withdrawableDividendOf  
isExcludedFromFees  
updateGasForProcessing  
setAutomatedMarketMakerPair  
excludeMultipleAccountsFromFees  
updateUniswapV2Router  
updateDividendTracker  
...
```

Recommendation

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

L04 - Conformance to Solidity Naming Conventions

| | |
|--------------------|---|
| Criticality | minor |
| Location | contract.sol#L931,1330,1334,1343,1401,1406,1708,1740,1745,1789,1812,1813,1830,2121,2122,2123,2124,2183,2190,2202,2216,2101,2387,2746,2617 |

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.

```
_marketingWalletAddress
_enable
_account
magnitude
_owner
_symbol
_name
_rewardToken
__DividendPayingToken_init
...
```

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#L1858,1789

Description

There are segments that contain unused state variables.

```
__gap  
MAX_INT256
```

Recommendation

Remove unused state variables.

L07 - Missing Events Arithmetic

Criticality

minor

Location

contract.sol#L2752,2818,2824,2830

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.

```
marketingFee = value
liquidityFee = value
totalFees = tokenRewardsFee.add(liquidityFee).add(marketingFee)
swapTokensAtAmount = amount
```

Recommendation

Emit an event for critical parameter changes.

L09 - Dead Code Elimination

| | |
|--------------------|---|
| Criticality | minor |
| Location | contract.sol#L845,879,859,1330,2235,416,1573,1904 |

Description

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

```
abs
_transfer
_burn
__Context_init
predictDeterministicAddress
cloneDeterministic
```

Recommendation

Remove unused functions.

L12 - Using Variables before Declaration

Criticality

minor

Location

contract.sol#L3070,3072,3071

Description

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

```
claims  
lastProcessedIndex  
iterations
```

Recommendation

The variables should be declared before any usage of them.

L14 - Uninitialized Variables in Local Scope

Criticality

minor

Location

contract.sol#L3070,3071,3072

Description

There are variables that are defined in the local scope and are not initialized.

```
lastProcessedIndex  
claims  
iterations
```

Recommendation

All the local scoped variables should be initialized.

L15 - Local Scope Variable Shadowing

Criticality

minor

Location

contract.sol#L2123,2124,2183,2190,2202,2216

Description

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

```
_owner  
_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 | ✓ | - |
| | | | | |
| IERC20Metadata | Interface | IERC20 | | |
| | name | External | | - |
| | symbol | External | | - |
| | decimals | External | | - |
| | | | | |
| Context | Implementation | | | |
| | _msgSender | Internal | | |
| | _msgData | Internal | | |
| | | | | |
| ERC20 | Implementation | Context, IERC20, IERC20Metadata | | |
| | <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 | ✓ | |
| | | | | |
| Ownable | Implementation | Context | | |
| | <Constructor> | Public | ✓ | - |
| | owner | Public | | - |
| | renounceOwnership | Public | ✓ | onlyOwner |
| | transferOwnership | Public | ✓ | onlyOwner |
| | _setOwner | Private | ✓ | |
| | | | | |
| 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 | | |
| | | | | |
| Clones | Library | | | |
| | clone | Internal | ✓ | |

| | | | | |
|---------------------------|------------------------------|----------|---------|---|
| | cloneDeterministic | Internal | ✓ | |
| | predictDeterministicAddress | Internal | | |
| | predictDeterministicAddress | Internal | | |
| | | | | |
| 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 | ✓ | - |
| | | | | |
| IPinkAntiBot | Interface | | | |
| | setTokenOwner | External | ✓ | - |
| | onPreTransferCheck | External | ✓ | - |
| | | | | |
| IERC20Upgradeable | Interface | | | |
| | totalSupply | External | | - |
| | balanceOf | External | | - |
| | transfer | External | ✓ | - |
| | allowance | External | | - |
| | approve | External | ✓ | - |
| | transferFrom | External | ✓ | - |
| | | | | |
| IERC20MetadataUpgradeable | Interface | IERC20Upgradeable | | |
| | name | External | | - |
| | symbol | External | | - |
| | decimals | External | | - |
| | | | | |
| Initializable | Implementation | | | |
| | | | | |
| ContextUpgradeable | Implementation | Initializable | | |
| | __Context_init | Internal | ✓ | initializer |

| | | | | |
|--------------------------|--------------------------|---|---|-------------|
| | __Context_init_unchained | Internal | ✓ | initializer |
| | _msgSender | Internal | | |
| | _msgData | Internal | | |
| | | | | |
| ERC20Upgradable | Implementation | Initializable, ContextUpgradable, IERC20Upgradable, IERC20MetadataUpgradable | | |
| | __ERC20_init | Internal | ✓ | initializer |
| | __ERC20_init_unchained | Internal | ✓ | initializer |
| | 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 | ✓ | |
| | | | | |
| OwnableUpgradable | Implementation | Initializable, ContextUpgradable | | |
| | __Ownable_init | Internal | ✓ | initializer |
| | __Ownable_init_unchained | Internal | ✓ | initializer |
| | owner | Public | | - |

| | | | | |
|-----------------------|----------------------|----------|---|-----------|
| | renounceOwnership | Public | ✓ | onlyOwner |
| | transferOwnership | Public | ✓ | onlyOwner |
| | _setOwner | Private | ✓ | |
| | | | | |
| 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 | ✓ | - |
| | | | | |
| SafeMathInt | Library | | | |
| | mul | Internal | | |

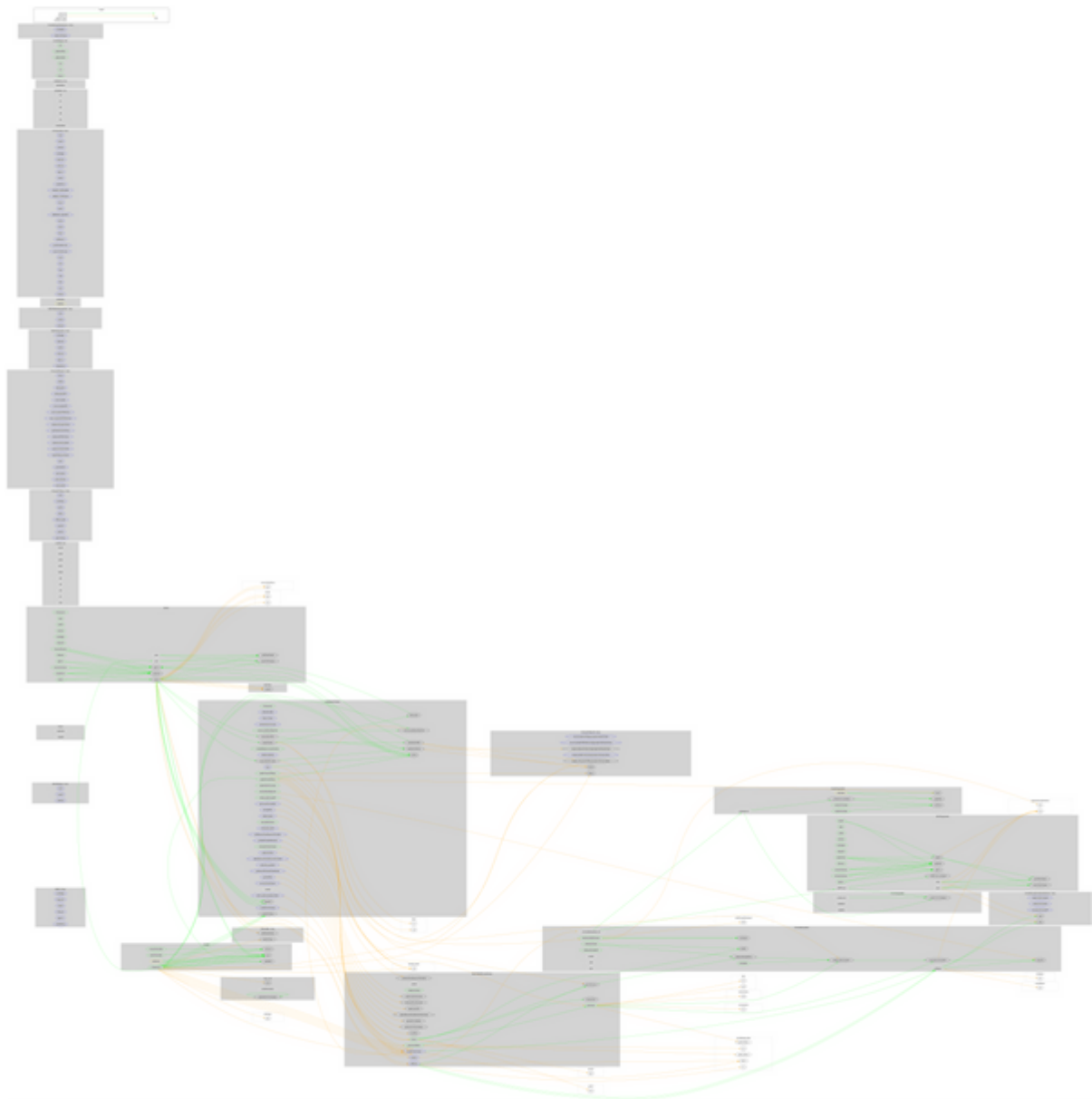
| | | | | |
|---|------------------------|--|---|---|
| | div | Internal | | |
| | sub | Internal | | |
| | add | Internal | | |
| | abs | Internal | | |
| | toUint256Safe | Internal | | |
| | | | | |
| SafeMathUint | Library | | | |
| | toInt256Safe | Internal | | |
| | | | | |
| IterableMapping | Library | | | |
| | get | Public | | - |
| | getIndexOfKey | Public | | - |
| | getKeyAtIndex | Public | | - |
| | size | Public | | - |
| | set | Public | ✓ | - |
| | remove | Public | ✓ | - |
| | | | | |
| DividendPayingTokenInterface | Interface | | | |
| | dividendOf | External | | - |
| | withdrawDividend | External | ✓ | - |
| | | | | |
| DividendPayingTokenOptionalInterface | Interface | | | |
| | withdrawableDividendOf | External | | - |
| | withdrawnDividendOf | External | | - |
| | accumulativeDividendOf | External | | - |
| | | | | |
| DividendPayingToken | Implementation | ERC20Upgradable, OwnableUpgradable, DividendPayingTokenInterface, DividendPayingTokenOp | | |

| | | | | |
|--------------------------------------|---|--|---|-------------|
| | | tionallInterfa ce | | |
| | __DividendPayingToken_init | Internal | ✓ | initializer |
| | distributeCAKEDividends | Public | ✓ | onlyOwner |
| | withdrawDividend | Public | ✓ | - |
| | _withdrawDividendOfUser | Internal | ✓ | |
| | dividendOf | Public | | - |
| | withdrawableDividendOf | Public | | - |
| | withdrawnDividendOf | Public | | - |
| | accumulativeDividendOf | Public | | - |
| | _transfer | Internal | ✓ | |
| | _mint | Internal | ✓ | |
| | _burn | Internal | ✓ | |
| | _setBalance | Internal | ✓ | |
| | | | | |
| BABYTOKENDi videndTracker | Implementation | OwnableUp gradeable, DividendPay ingToken | | |
| | initialize | External | ✓ | initializer |
| | _transfer | Internal | | |
| | withdrawDividend | Public | | - |
| | excludeFromDividends | External | ✓ | onlyOwner |
| | isExcludedFromDividends | Public | | - |
| | updateClaimWait | External | ✓ | onlyOwner |
| | updateMinimumTokenBalanceForDivid ends | External | ✓ | onlyOwner |
| | getLastProcessedIndex | External | | - |
| | getNumberOfTokenHolders | External | | - |
| | getAccount | Public | | - |
| | getAccountAtIndex | Public | | - |
| | canAutoClaim | Private | | |
| | setBalance | External | ✓ | onlyOwner |
| | process | Public | ✓ | - |
| | processAccount | Public | ✓ | onlyOwner |
| | | | | |
| BaseToken | Implementation | | | |

| | | | | |
|-------------------------|---------------------------------------|---------------------------------|---------|-----------|
| | | | | |
| AntiBotBABYTOKEN | Implementation | ERC20, Ownable, BaseToken | | |
| | <Constructor> | Public | Payable | ERC20 |
| | setEnableAntiBot | External | ✓ | onlyOwner |
| | <Receive Ether> | External | Payable | - |
| | setSwapTokensAtAmount | External | ✓ | onlyOwner |
| | updateDividendTracker | Public | ✓ | onlyOwner |
| | updateUniswapV2Router | Public | ✓ | onlyOwner |
| | excludeFromFees | Public | ✓ | onlyOwner |
| | excludeMultipleAccountsFromFees | Public | ✓ | onlyOwner |
| | setMarketingWallet | External | ✓ | onlyOwner |
| | setTokenRewardsFee | External | ✓ | onlyOwner |
| | setLiquiditFee | External | ✓ | onlyOwner |
| | setMarketingFee | External | ✓ | onlyOwner |
| | setAutomatedMarketMakerPair | Public | ✓ | onlyOwner |
| | _setAutomatedMarketMakerPair | Private | ✓ | |
| | updateGasForProcessing | Public | ✓ | onlyOwner |
| | updateClaimWait | External | ✓ | onlyOwner |
| | getClaimWait | External | | - |
| | updateMinimumTokenBalanceForDividends | External | ✓ | onlyOwner |
| | getMinimumTokenBalanceForDividends | External | | - |
| | getTotalDividendsDistributed | External | | - |
| | isExcludedFromFees | Public | | - |
| | withdrawableDividendOf | Public | | - |
| | dividendTokenBalanceOf | Public | | - |
| | excludeFromDividends | External | ✓ | onlyOwner |
| | isExcludedFromDividends | Public | | - |
| | getAccountDividendsInfo | External | | - |
| | getAccountDividendsInfoAtIndex | External | | - |
| | processDividendTracker | External | ✓ | - |
| | claim | External | ✓ | - |
| | getLastProcessedIndex | External | | - |
| | getNumberOfDividendTokenHolders | External | | - |

| | | | | |
|--|----------------------|----------|---|--|
| | _transfer | Internal | ✓ | |
| | swapAndSendToFee | Private | ✓ | |
| | swapAndLiquify | Private | ✓ | |
| | swapTokensForEth | Private | ✓ | |
| | swapTokensForCake | Private | ✓ | |
| | addLiquidity | Private | ✓ | |
| | swapAndSendDividends | Private | ✓ | |

Contract Flow



Domain Info

| | |
|-------------------------------|----------------------------|
| Domain Name | gmttwo.com |
| Registry Domain ID | 2704499496_DOMAIN_COM-VRSN |
| Creation Date | 2022-06-17T12:22:15Z |
| Updated Date | 2022-06-17T13:52:18Z |
| Registry Expiry Date | 2023-06-17T12:22:15Z |
| Registrar WHOIS Server | whois.apiname.com |
| Registrar URL | http://apiname.com |
| Registrar | Atak Domain |
| Registrar IANA ID | 1601 |

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

STEP'N 2.0 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. There is also a limit of max 25% fees.

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.

Cyberscope team provides no guarantees against the sale of team tokens or the removal of liquidity by the project audited in this document. Always Do your own research and protect yourselves from being scammed.

The Cyberscope team has audited this project for general information and only expresses their opinion based on similar projects and checks from popular diagnostic tools. Under no circumstances did Cyberscope receive a payment to manipulate those results or change the awarding badge that we will be adding in our website.

Always Do your own research and protect yourselves from scams. This document should not be presented as a reason to buy or not buy any particular token.

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>