



Cyberscope

# Audit Report

## **FLOKICHAIN**

October 2022

Address 0x350191131822BAD7836B9EbcD26fB4cE86a5bd34

Network BSC

Audited by © cyberscope

# Table of Contents

|                                                         |           |
|---------------------------------------------------------|-----------|
| <b>Table of Contents</b>                                | <b>1</b>  |
| <b>Contract Review</b>                                  | <b>3</b>  |
| <b>Source Files</b>                                     | <b>3</b>  |
| <b>Audit Updates</b>                                    | <b>3</b>  |
| <b>Contract Analysis</b>                                | <b>4</b>  |
| <b>Contract Diagnostics</b>                             | <b>5</b>  |
| <b>L02 - State Variables could be Declared Constant</b> | <b>6</b>  |
| Description                                             | 6         |
| Recommendation                                          | 6         |
| <b>L04 - Conformance to Solidity Naming Conventions</b> | <b>7</b>  |
| Description                                             | 7         |
| Recommendation                                          | 7         |
| <b>L07 - Missing Events Arithmetic</b>                  | <b>8</b>  |
| Description                                             | 8         |
| Recommendation                                          | 8         |
| <b>L12 - Using Variables before Declaration</b>         | <b>9</b>  |
| Description                                             | 9         |
| Recommendation                                          | 9         |
| <b>L13 - Divide before Multiply Operation</b>           | <b>10</b> |
| Description                                             | 10        |
| Recommendation                                          | 10        |
| <b>L14 - Uninitialized Variables in Local Scope</b>     | <b>11</b> |
| Description                                             | 11        |
| Recommendation                                          | 11        |
| <b>Contract Functions</b>                               | <b>12</b> |
| <b>Contract Flow</b>                                    | <b>16</b> |

|                         |           |
|-------------------------|-----------|
| <b>Domain Info</b>      | <b>17</b> |
| <b>Summary</b>          | <b>18</b> |
| <b>Disclaimer</b>       | <b>19</b> |
| <b>About Cyberscope</b> | <b>20</b> |

## Contract Review

|                         |                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Contract Name</b>    | Flokichain                                                                                                                                              |
| <b>Compiler Version</b> | v0.8.17+commit.8df45f5f                                                                                                                                 |
| <b>Optimization</b>     | 5000 runs                                                                                                                                               |
| <b>Licence</b>          | MIT                                                                                                                                                     |
| <b>Explorer</b>         | <a href="https://bscscan.com/token/0x350191131822BAD7836B9EbcD26fB4cE86a5bd34">https://bscscan.com/token/0x350191131822BAD7836B9EbcD26fB4cE86a5bd34</a> |
| <b>Symbol</b>           | FC                                                                                                                                                      |
| <b>Decimals</b>         | 18                                                                                                                                                      |
| <b>Total Supply</b>     | 100,000,000                                                                                                                                             |
| <b>Domain</b>           |                                                                                                                                                         |

## Source Files

|                     |                                                                  |
|---------------------|------------------------------------------------------------------|
| <b>Filename</b>     | <b>SHA256</b>                                                    |
| <b>contract.sol</b> | 2a4e32585c82110c668f9272c8a4d29c3b20b55dbdcfab86f2b3e1dc8080e494 |

## Audit Updates

|                      |                  |
|----------------------|------------------|
| <b>Initial Audit</b> | 8th October 2022 |
| <b>Corrected</b>     |                  |

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

# Contract Diagnostics

● Critical   ● Medium   ● Minor / Informative

| Severity | Code | Description                                | Status     |
|----------|------|--------------------------------------------|------------|
| ●        | L02  | State Variables could be Declared Constant | Unresolved |
| ●        | L04  | Conformance to Solidity Naming Conventions | Unresolved |
| ●        | L07  | Missing Events Arithmetic                  | Unresolved |
| ●        | L12  | Using Variables before Declaration         | Unresolved |
| ●        | L13  | Divide before Multiply Operation           | Unresolved |
| ●        | L14  | Uninitialized Variables in Local Scope     | Unresolved |

## L02 - State Variables could be Declared Constant

|                    |                     |
|--------------------|---------------------|
| <b>Criticality</b> | minor / informative |
| <b>Location</b>    | contract.sol#L154   |
| <b>Status</b>      | Unresolved          |

### Description

Constant state variables should be declared constant to save gas.

```
marketingWallet
```

### Recommendation

Add the constant attribute to state variables that never change.

## L04 - Conformance to Solidity Naming Conventions

|                    |                                                                  |
|--------------------|------------------------------------------------------------------|
| <b>Criticality</b> | minor / informative                                              |
| <b>Location</b>    | contract.sol#L140,116,33,134,167,147,385,146,115,148,114,118,117 |
| <b>Status</b>      | Unresolved                                                       |

### 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.

```
_ratios  
_symbol  
WETH  
_taxRates  
_hasLiqBeenAdded  
maxRoundtripTax  
_antiSnipe  
maxTransferTaxes  
_name  
...
```

### Recommendation

Follow the Solidity naming convention.

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

## L07 - Missing Events Arithmetic

|                    |                               |
|--------------------|-------------------------------|
| <b>Criticality</b> | minor / informative           |
| <b>Location</b>    | contract.sol#L411,433,442,416 |
| <b>Status</b>      | Unresolved                    |

### 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.

```
_maxTxAmount = (_tTotal * percent) / divisor  
swapThreshold = (_tTotal * thresholdPercent) / thresholdDivisor  
piSwapPercent = priceImpactSwapPercent  
_maxWalletSize = (_tTotal * percent) / divisor
```

### Recommendation

Emit an event for critical parameter changes.

## L12 - Using Variables before Declaration

|                    |                     |
|--------------------|---------------------|
| <b>Criticality</b> | minor / informative |
| <b>Location</b>    | contract.sol#L712   |
| <b>Status</b>      | Unresolved          |

### 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.

check

### Recommendation

The variables should be declared before any usage of them.

## L13 - Divide before Multiply Operation

|                    |                     |
|--------------------|---------------------|
| <b>Criticality</b> | minor / informative |
| <b>Location</b>    | contract.sol#L699   |
| <b>Status</b>      | Unresolved          |

### Description

Performing divisions before multiplications may cause lose of prediction.

```
feeAmount = (tAmount * currentFee) / masterTaxDivisor
```

### Recommendation

The multiplications should be prior to the divisions.

## L14 - Uninitialized Variables in Local Scope

|                    |                           |
|--------------------|---------------------------|
| <b>Criticality</b> | minor / informative       |
| <b>Location</b>    | contract.sol#L712,711,700 |
| <b>Status</b>      | Unresolved                |

### Description

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

```
check  
checked  
values
```

### Recommendation

All the local scoped variables should be initialized.

# Contract Functions

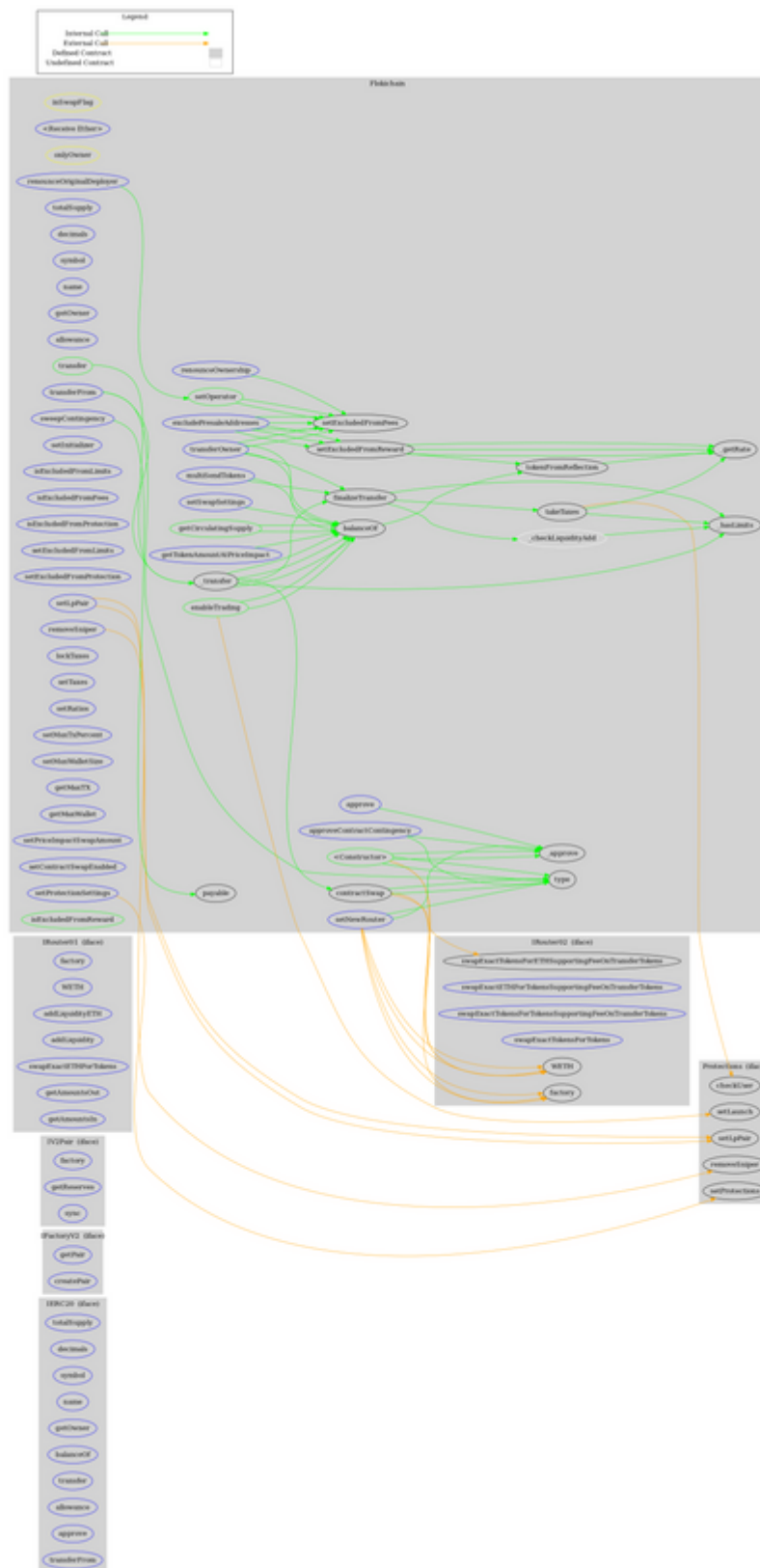
| Contract   | Type                  | Bases      |            |           |
|------------|-----------------------|------------|------------|-----------|
|            | Function Name         | Visibility | Mutability | Modifiers |
| IERC20     | Interface             |            |            |           |
|            | totalSupply           | External   |            | -         |
|            | decimals              | External   |            | -         |
|            | symbol                | External   |            | -         |
|            | name                  | External   |            | -         |
|            | getOwner              | External   |            | -         |
|            | balanceOf             | External   |            | -         |
|            | transfer              | External   | ✓          | -         |
|            | allowance             | External   |            | -         |
|            | approve               | External   | ✓          | -         |
|            | transferFrom          | External   | ✓          | -         |
| IFactoryV2 | Interface             |            |            |           |
|            | getPair               | External   |            | -         |
|            | createPair            | External   | ✓          | -         |
| IV2Pair    | Interface             |            |            |           |
|            | factory               | External   |            | -         |
|            | getReserves           | External   |            | -         |
|            | sync                  | External   | ✓          | -         |
| IRouter01  | Interface             |            |            |           |
|            | factory               | External   |            | -         |
|            | WETH                  | External   |            | -         |
|            | addLiquidityETH       | External   | Payable    | -         |
|            | addLiquidity          | External   | ✓          | -         |
|            | swapExactETHForTokens | External   | Payable    | -         |
|            | getAmountsOut         | External   |            | -         |
|            | getAmountsIn          | External   |            | -         |

|                    |                                                       |           |         |           |
|--------------------|-------------------------------------------------------|-----------|---------|-----------|
|                    |                                                       |           |         |           |
| <b>IRouter02</b>   | Interface                                             | IRouter01 |         |           |
|                    | swapExactTokensForETHSupportingFeeOnTransferTokens    | External  | ✓       | -         |
|                    | swapExactETHForTokensSupportingFeeOnTransferTokens    | External  | Payable | -         |
|                    | swapExactTokensForTokensSupportingFeeOnTransferTokens | External  | ✓       | -         |
|                    | swapExactTokensForTokens                              | External  | ✓       | -         |
|                    |                                                       |           |         |           |
| <b>Protections</b> | Interface                                             |           |         |           |
|                    | checkUser                                             | External  | ✓       | -         |
|                    | setLaunch                                             | External  | ✓       | -         |
|                    | setLpPair                                             | External  | ✓       | -         |
|                    | setProtections                                        | External  | ✓       | -         |
|                    | removeSniper                                          | External  | ✓       | -         |
|                    |                                                       |           |         |           |
| <b>Flokichain</b>  | Implementation                                        | IERC20    |         |           |
|                    | <Constructor>                                         | Public    | Payable | -         |
|                    | <Receive Ether>                                       | External  | Payable | -         |
|                    | transferOwner                                         | External  | ✓       | onlyOwner |
|                    | renounceOwnership                                     | External  | ✓       | onlyOwner |
|                    | setOperator                                           | Public    | ✓       | -         |
|                    | renounceOriginalDeployer                              | External  | ✓       | -         |
|                    | totalSupply                                           | External  |         | -         |
|                    | decimals                                              | External  |         | -         |
|                    | symbol                                                | External  |         | -         |
|                    | name                                                  | External  |         | -         |
|                    | getOwner                                              | External  |         | -         |
|                    | allowance                                             | External  |         | -         |
|                    | balanceOf                                             | Public    |         | -         |
|                    | transfer                                              | Public    | ✓       | -         |
|                    | approve                                               | External  | ✓       | -         |
|                    | _approve                                              | Internal  | ✓       |           |
|                    | approveContractContingency                            | External  | ✓       | onlyOwner |
|                    | transferFrom                                          | External  | ✓       | -         |

|  |                             |          |   |            |
|--|-----------------------------|----------|---|------------|
|  | setNewRouter                | External | ✓ | onlyOwner  |
|  | setLpPair                   | External | ✓ | onlyOwner  |
|  | setInitializer              | External | ✓ | onlyOwner  |
|  | isExcludedFromLimits        | External |   | -          |
|  | isExcludedFromFees          | External |   | -          |
|  | isExcludedFromProtection    | External |   | -          |
|  | setExcludedFromLimits       | External | ✓ | onlyOwner  |
|  | setExcludedFromFees         | Public   | ✓ | onlyOwner  |
|  | setExcludedFromProtection   | External | ✓ | onlyOwner  |
|  | getCirculatingSupply        | Public   |   | -          |
|  | removeSniper                | External | ✓ | onlyOwner  |
|  | setProtectionSettings       | External | ✓ | onlyOwner  |
|  | lockTaxes                   | External | ✓ | onlyOwner  |
|  | setTaxes                    | External | ✓ | onlyOwner  |
|  | setRatios                   | External | ✓ | onlyOwner  |
|  | setMaxTxPercent             | External | ✓ | onlyOwner  |
|  | setMaxWalletSize            | External | ✓ | onlyOwner  |
|  | getMaxTX                    | External |   | -          |
|  | getMaxWallet                | External |   | -          |
|  | getTokenAmountAtPriceImpact | External |   | -          |
|  | setSwapSettings             | External | ✓ | onlyOwner  |
|  | setPriceImpactSwapAmount    | External | ✓ | onlyOwner  |
|  | setContractSwapEnabled      | External | ✓ | onlyOwner  |
|  | excludePresaleAddresses     | External | ✓ | onlyOwner  |
|  | _hasLimits                  | Internal |   |            |
|  | _transfer                   | Internal | ✓ |            |
|  | contractSwap                | Internal | ✓ | inSwapFlag |
|  | _checkLiquidityAdd          | Internal | ✓ |            |
|  | enableTrading               | Public   | ✓ | onlyOwner  |
|  | sweepContingency            | External | ✓ | onlyOwner  |
|  | multiSendTokens             | External | ✓ | onlyOwner  |
|  | isExcludedFromReward        | Public   |   | -          |
|  | setExcludedFromReward       | Public   | ✓ | onlyOwner  |
|  | tokenFromReflection         | Public   |   | -          |
|  | finalizeTransfer            | Internal | ✓ |            |

|  |           |          |   |  |
|--|-----------|----------|---|--|
|  | takeTaxes | Internal | ✓ |  |
|  | _getRate  | Internal |   |  |

# Contract Flow



## Domain Info

|                               |                                                                     |
|-------------------------------|---------------------------------------------------------------------|
| <b>Domain Name</b>            | flokichain.app                                                      |
| <b>Registry Domain ID</b>     | 4A1D1B41B-APP                                                       |
| <b>Creation Date</b>          | 2022-09-21T17:13:02Z                                                |
| <b>Updated Date</b>           | 2022-09-23T04:20:15Z                                                |
| <b>Registry Expiry Date</b>   | 2023-09-21T17:13:02Z                                                |
| <b>Registrar WHOIS Server</b> | whois.namecheap.com                                                 |
| <b>Registrar URL</b>          | <a href="https://www.namecheap.com/">https://www.namecheap.com/</a> |
| <b>Registrar</b>              | Namecheap Inc.                                                      |
| <b>Registrar IANA ID</b>      | 1068                                                                |

The domain was created 4 days 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

FLOKICHAIN 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 6% 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>