

Audit Report Frog Inu King

June 2022

Type BEP20

Network BSC

Address 0x07f1685fD2416f40a1977a77DBF56d8171716aAA

Audited by © cyberscope



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Cyberscope Frog Inu King Token Audit

About Cyberscope



Contract Review

| Contract Name | FGIKING |
|------------------|--|
| Compiler Version | v0.8.2+commit.661d1103 |
| Optimization | 200 runs |
| Licence | OSL-3.0 |
| Explorer | https://bscscan.com/token/0x07f1685fD2416f40a1977 a77DBF56d8171716aAA |
| Symbol | FGI King |
| Decimals | 9 |
| Total Supply | 1,000,000,000 |
| Domain | froginuking.xyz |

Source Files

| Filename | SHA256 |
|--------------|--|
| contract.sol | 07d1e2bf5306755c7df9b222e3578c6e75a594ffb3e5fe e28a8d91a372525e83 |

Audit Updates

| Initial Audit | 4th June 2022 |
|---------------|---------------|
| Corrected | |



Contract Analysis

CriticalMediumMinorPass

| 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 |
| • | ВТ | Contract Owner is not able to burn tokens from specific wallet |
| • | ВС | Contract Owner is not able to blacklist wallets from selling |



ST - Stop Transactions

```
Criticality critical

Location contract.sol#L801
```

Description

The contract owner has the authority to stop the sales for all users excluding the owner. The owner may take advantage of it by setting the <u>_totalTaxIfSelling</u> to a high value. As a result the substitution will underflow and the transaction will revert.

```
else if(isMarketPair[recipient]) {
    feeAmount = amount.mul(_totalTaxIfSelling).div(100);
}

if(feeAmount > 0) {
    _balances[address(this)] = _balances[address(this)].add(feeAmount);
    emit Transfer(sender, address(this), feeAmount);
}

return amount.sub(feeAmount);
```

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. That risk can be prevented by temporarily locking the contract or renouncing ownership.



ELFM - Exceed Limit Fees Manipulation

| Criticality | critical |
|-------------|-----------------------|
| Location | contract.sol#L586,594 |

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 setBuyTaxes and setSellTaxes functions with a high percentage value.

```
function setBuyTaxes(uint256 newLiquidityTax, uint256 newMarketingTax, uint256
newTeamTax) external onlyOwner() {
    _buyLiquidityFee = newLiquidityTax;
    _buyMarketingFee = newMarketingTax;
    _buyTeamFee = newTeamTax;

    _totalTaxIfBuying = _buyLiquidityFee.add(_buyMarketingFee).add(_buyTeamFee);
}

function setSellTaxes(uint256 newLiquidityTax, uint256 newMarketingTax, uint256 newTeamTax) external onlyOwner() {
    _sellLiquidityFee = newLiquidityTax;
    _sellMarketingFee = newMarketingTax;
    _sellTeamFee = newTeamTax;

    _totalTaxIfSelling =
    _sellLiquidityFee.add(_sellMarketingFee).add(_sellTeamFee);
}
```

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

CriticalMediumMinor

| 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 |
| • | L09 | Dead Code Elimination |



L01 - Public Function could be Declared External

| Criticality | minor |
|-------------|--|
| Location | contract.sol#L186,191,197,201,205,212,523,527,531,535,543,547,552,557,561,57 4,582,638,643,647,655,677,682 |

Description

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

```
transferFrom
transfer
changeRouterVersion
getCirculatingSupply
setSwapAndLiquifyByLimitOnly
setSwapAndLiquifyEnabled
setIsExcludedFromFee
setMarketPairStatus
approve
...
```

Recommendation

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



L02 - State Variables could be Declared Constant

| Criticality | minor |
|-------------|---------------------------|
| Location | contract.sol#L427,425,426 |

Description

Constant state variables should be declared constant to save gas.

```
_symbol
_name
_decimals
```

Recommendation

Add the constant attribute to state variables that never change.



L04 - Conformance to Solidity Naming Conventions

| Criticality | minor |
|-------------|--|
| Location | contract.sol#L251,252,268,287,638,433,441,442,443,445,446,447,449,450,451,45 3,454,455,458,459 |

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.

```
_walletMax
_maxTxAmount
_totalDistributionShares
_totalTaxIfSelling
_totalTaxIfBuying
_teamShare
_marketingShare
_liquidityShare
_sellTeamFee
...
```

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 | contract.sol#L586,594,602,610,622,626 |

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.

```
minimumTokensBeforeSwap = newLimit
   _walletMax = newLimit
   _maxTxAmount = maxTxAmount
   _liquidityShare = newLiquidityShare
   _totalTaxIfSelling = _sellLiquidityFee.add(_sellMarketingFee).add(_sellTeamFee)
   _totalTaxIfBuying = _buyLiquidityFee.add(_buyMarketingFee).add(_buyTeamFee)
```

Recommendation

Emit an event for critical parameter changes.



L09 - Dead Code Elimination

| Criticality | minor |
|-------------|---|
| Location | contract.sol#L144,127,131,135,139,108,119 |

Description

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

sendValue
isContract
functionCallWithValue
functionCall
_functionCallWithValue

Recommendation

Remove unused functions.



Contract Functions

| Contract | Туре | 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 | 1 | - |
| SafeMath | Library | | | |
| | add | Internal | | |
| | sub | Internal | | |
| | sub | Internal | | |
| | mul | Internal | | |
| | div | Internal | | |
| | div | Internal | | |
| | mod | Internal | | |
| | mod | Internal | | |
| Address | Library | | | |
| | isContract | Internal | | |
| | sendValue | Internal | √ | |
| | functionCall | Internal | √ | |
| | functionCall | Internal | ✓ | |



| | functionCallWithValue | Internal | ✓ | |
|-----------------------|-----------------------------|----------|----------|-----------|
| | functionCallWithValue | Internal | ✓ | |
| | _functionCallWithValue | Private | ✓ | |
| | | | | |
| Ownable | Implementation | Context | | |
| | <constructor></constructor> | Public | ✓ | - |
| | owner | Public | | - |
| | waiveOwnership | Public | ✓ | onlyOwner |
| | transferOwnership | Public | 1 | onlyOwner |
| | getUnlockTime | Public | | - |
| | getTime | Public | | - |
| | lock | Public | 1 | onlyOwner |
| | unlock | Public | ✓ | - |
| IUniswapV2Fa ctory | Interface | | | |
| | feeTo | External | | - |
| | feeToSetter | External | | - |
| | getPair | External | | - |
| | allPairs | External | | - |
| | allPairsLength | External | | - |
| | createPair | External | 1 | - |
| | setFeeTo | External | 1 | - |
| | setFeeToSetter | External | ✓ | - |
| IUniswapV2Pai r | Interface | | | |
| | name | External | | - |
| | symbol | External | | - |
| | decimals | External | | - |
| | totalSupply | External | | - |
| | balanceOf | External | | - |
| | allowance | External | | - |
| | approve | External | 1 | - |
| | transfer | External | 1 | - |
| | transferFrom | External | 1 | - |



| F r | DOMAIN_SEPARATOR PERMIT_TYPEHASH nonces permit MINIMUM_LIQUIDITY factory | External External External External | ✓ | - - - |
|------------------------|--|-------------------------------------|----------|-------------|
| r F N f. | nonces permit MINIMUM_LIQUIDITY factory | External External | ✓ | - |
| F. N. f. t. | oermit MINIMUM_LIQUIDITY factory | External | ✓ | |
| f. t | MINIMUM_LIQUIDITY factory | | ✓ | - |
| f. | factory | External | | |
| t | | | | - |
| t | | External | | - |
| | token0 | External | | - |
| C | token1 | External | | - |
| " | getReserves | External | | - |
| ŗ | orice0CumulativeLast | External | | - |
| p | orice1CumulativeLast | External | | - |
| k | «Last | External | | - |
| k | ourn | External | ✓ | - |
| S | swap | External | ✓ | - |
| S | skim | External | ✓ | - |
| S | sync | External | ✓ | - |
| i | nitialize | External | ✓ | - |
| | | | | |
| IUniswapV2Ro uter01 | nterface | | | |
| f | factory | External | | - |
| V | WETH | External | | - |
| a | addLiquidity | External | ✓ | - |
| a | addLiquidityETH | External | Payable | - |
| r | removeLiquidity | External | ✓ | - |
| r | removeLiquidityETH | External | ✓ | - |
| r | removeLiquidityWithPermit | External | ✓ | - |
| r | removeLiquidityETHWithPermit | External | ✓ | - |
| s | swapExactTokensForTokens | External | ✓ | - |
| S | swapTokensForExactTokens | External | ✓ | - |
| S | swapExactETHForTokens | External | Payable | - |
| s | swapTokensForExactETH | External | ✓ | - |
| s | swapExactTokensForETH | External | ✓ | - |
| S | swapETHForExactTokens | External | Payable | - |
| | quote | External | | _ |
| C | quote | -Atomai | | · · |



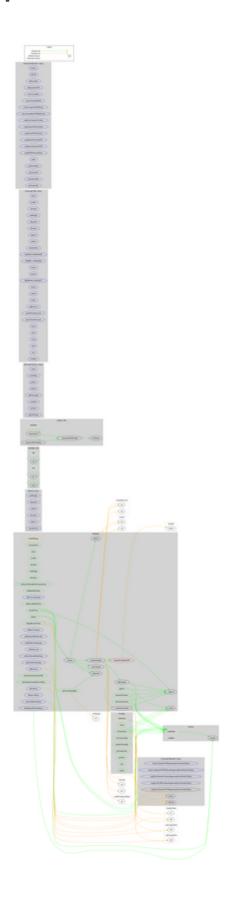
| | getAmountIn | External | | - |
|------------------------|--|--------------------------------|---------|-----------|
| | getAmountsOut | External | | - |
| | getAmountsIn | External | | - |
| | | | | |
| IUniswapV2Ro uter02 | Interface | IUniswapV2 Router01 | | |
| | removeLiquidityETHSupportingFeeOn TransferTokens | External | 1 | - |
| | removeLiquidityETHWithPermitSuppor tingFeeOnTransferTokens | External | ✓ | - |
| | swapExactTokensForTokensSupportin gFeeOnTransferTokens | External | ✓ | - |
| | swapExactETHForTokensSupportingF eeOnTransferTokens | External | Payable | - |
| | swapExactTokensForETHSupportingF eeOnTransferTokens | External | ✓ | - |
| | | | | |
| FGIKING | Implementation | Context, IERC20, Ownable | | |
| | <constructor></constructor> | Public | 1 | - |
| | name | Public | | - |
| | symbol | Public | | - |
| | decimals | Public | | - |
| | totalSupply | Public | | - |
| | balanceOf | Public | | - |
| | allowance | Public | | - |
| | increaseAllowance | Public | ✓ | - |
| | decreaseAllowance | Public | ✓ | - |
| | minimumTokensBeforeSwapAmount | Public | | - |
| | approve | Public | ✓ | - |
| | _approve | Private | 1 | |
| | setMarketPairStatus | Public | 1 | onlyOwner |
| | setIsTxLimitExempt | External | 1 | onlyOwner |
| | setIsExcludedFromFee | Public | 1 | onlyOwner |
| | setBuyTaxes | External | 1 | onlyOwner |
| | setSellTaxes | External | 1 | onlyOwner |
| | setDistributionSettings | External | 1 | onlyOwner |



| setMaxTxAmount | External | ✓ | onlyOwner |
|------------------------------|----------|---------|-------------|
| enableDisableWalletLimit | External | ✓ | onlyOwner |
| setIsWalletLimitExempt | External | ✓ | onlyOwner |
| setWalletLimit | External | 1 | onlyOwner |
| setNumTokensBeforeSwap | External | 1 | onlyOwner |
| setMarketingWalletAddress | External | 1 | onlyOwner |
| setTeamWalletAddress | External | 1 | onlyOwner |
| setSwapAndLiquifyEnabled | Public | 1 | onlyOwner |
| setSwapAndLiquifyByLimitOnly | Public | 1 | onlyOwner |
| getCirculatingSupply | Public | | - |
| transferToAddressETH | Private | 1 | |
| changeRouterVersion | Public | 1 | onlyOwner |
| <receive ether=""></receive> | External | Payable | - |
| transfer | Public | 1 | - |
| transferFrom | Public | 1 | - |
| _transfer | Private | 1 | |
| _basicTransfer | Internal | 1 | |
| swapAndLiquify | Private | 1 | lockTheSwap |
| swapTokensForEth | Private | 1 | |
| addLiquidity | Private | 1 | |
| takeFee | Internal | / | |



Contract Flow





Domain Info

| Domain Name | froginuking.xyz |
|---------------------------|--------------------------|
| Registry Domain ID | D301129552-CNIC |
| Creation Date | 2022-06-03T16:18:16.0Z |
| Updated Date | 2022-06-03T16:18:18.0Z |
| Registry Expiry Date | 2023-06-03T23:59:59.0Z |
| Registrar WHOIS Server | whois.godaddy.com |
| Registrar URL | https://www.godaddy.com/ |
| Registrar | Go Daddy, LLC |
| Registrar IANA ID | 146 |

The domain has been created about 18 hours 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

There are some functions that can be abused by the owner like stopping transactions and manipulating fees. The contract can be converted into a honeypot and prevent users from selling if the owner abuses the admin functions. 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

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