

Audit Report Fame Doge Coin

March 2022

Type BEP20

Network BSC

Address 0x3fbB54A733dF9F02EdEC5B8be8CEff305ca37C49

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Table of Contents

Table of Contents	1
Contract Review	3
Audit Updates	3
Contract Analysis	4
ST - Stop Transactions	5
Description	5
Recommendation	5
ELFM - Exceed Limit Fees Manipulation	7
Description	7
Recommendation	7
Contract Diagnostics	8
L01 - Public Function could be Declared External	9
Description	9
Recommendation	9
L02 - State Variables could be Declared Constant	10
Description	10
Recommendation	10
L05 - Unused State Variable	11
Description	11
Recommendation	11
L04 - Conformance to Solidity Naming Conventions	12
Description	12
Recommendation	12
L09 - Dead Code Elimination	13
Description	13
Recommendation	13

2

24

Cyberscope Fame Doge Coin Token Audit

About Cyberscope



Contract Review

Contract Name	Fame
Compiler Version	v0.8.4+commit.c7e474f2
Optimization	200 runs
Licence	None
Explorer	https://bscscan.com/token/0x3fbB54A733dF9F02EdE C5B8be8CEff305ca37C49
Symbol	FameDoge
Decimals	9
Total Supply	1,000,000,000
Source	contract.sol
Domain	famedoge.com

Audit Updates

Initial Audit	11th March 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#L658,677,757
```

Description

The contract owner has the authority to stop transactions for all users excluding the owner. The owner may take advantage of it by setting the _maxTxAmount or _walletMax to zero.

```
if(!isTxLimitExempt[sender] && !isTxLimitExempt[recipient]) {
    require(amount <= _maxTxAmount, "Transfer amount exceeds the maxTxAmount.");
}</pre>
```

```
if(checkWalletLimit && !isWalletLimitExempt[recipient])
    require(balanceOf(recipient).add(finalAmount) <= _walletMax);</pre>
```

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 _totalTaxIfSelling to a high value. This will make the contract to operate as a honeypot.

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

Recommendation

The contract could embody a check for not allowing setting the _maxTxAmount less than a reasonable amount. A suggested implementation could check that the maximum amount should be more than a fixed percentage of the total supply.

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#L553

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 setSelTaxes function with a high percentage value.

```
function setSelTaxes(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
•	L05	Unused State Variable
•	L04	Conformance to Solidity Naming Conventions
•	L09	Dead Code Elimination
•	L07	Missing Events Arithmetic



L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L161,166,172,482,486,490,494,502,506,511 and 10 more

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#L385,383,384,142,141

Description

Constant state variables should be declared constant to save gas.

```
asdasd
_lockTime
_symbol
_name
_decimals
```

Recommendation

Add the constant attribute to state variables that never change.



L05 - Unused State Variable

Criticality	minor
Location	contract.sol#L141,142

Description

There are segments that contain unused state variables.

_lockTime asdasd

Recommendation

Remove unused state variables.



L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L209,210,226,245,597,391,399,400,401,403 and 10 more

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



L09 - Dead Code Elimination

Criticality	minor
Location	contract.sol#L119,102,106,110,114,83,94

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.



L07 - Missing Events Arithmetic

Criticality	minor
Location	contract.sol#L545,553,561,569,581,585

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.



Contract Functions

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
Contout	Implementation			
Context	_msgSender	Internal		
	_msgData	Internal		
	_msgData	Internal		
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	1	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
SafeMath	Library			
	add	Internal		
	sub	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
	mod	Internal		
	mod	Internal		
Address	Library			
Addiess	isContract	Internal		
	sendValue	Internal	✓	
	functionCall	Internal	✓ ✓	
	functionCall	Internal	✓ ✓	
	functionCallWithValue functionCallWithValue	Internal	✓	



	functionCall\\/ith\/ala	Private	1	
	_functionCallWithValue	Private	V	
Ownable	Implementation	Context		
Ownable				
	<constructor></constructor>	Public	√	-
	owner	Public		-
	waiveOwnership	Public	1	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	getTime	Public		-
IUniswapV2Fa ctory	Interface			
	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-
	createPair	External	✓	-
	setFeeTo	External	✓	-
	setFeeToSetter	External	1	-
IUniswapV2Pai	Interface			
r	name	External		_
	symbol	External		
	decimals	External		_
				-
	totalSupply	External		-
	balanceOf	External		-
	allowance	External		-
	approve	External	√	-
	transfer	External	✓	-
	transferFrom	External	1	-
	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		-
	burn	External	1	-
	swap	External	✓	-
	skim	External	1	-
	sync	External	✓	-
	initialize	External	✓	-
IUniswapV2Ro uter01	Interface			
	factory	External		-
	WETH	External		-
	addLiquidity	External	✓	-
	addLiquidityETH	External	Payable	-
	removeLiquidity	External	1	-
	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		-



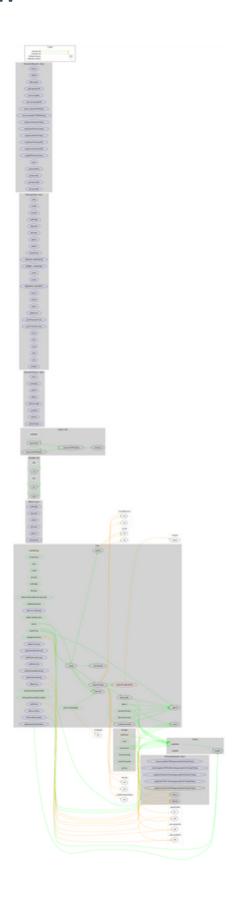
IUniswapV2Ro uter02	Interface	IUniswapV2 Router01		
	removeLiquidityETHSupportingFeeOn TransferTokens	External	✓	-
	removeLiquidityETHWithPermitSuppor tingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupportin gFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingF eeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingF eeOnTransferTokens	External	✓	-
Fame	Implementation	Context, IERC20, Ownable		
	<constructor></constructor>	Public	1	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	allowance	Public		-
	increaseAllowance	Public	1	-
	decreaseAllowance	Public	1	-
	minimumTokensBeforeSwapAmount	Public		-
	approve	Public	1	-
	_approve	Private	1	
	setMarketPairStatus	Public	1	onlyOwner
	setIsTxLimitExempt	External	1	onlyOwner
	setIsExcludedFromFee	Public	✓	onlyOwner
	setBuyTaxes	External	1	onlyOwner
	setSelTaxes	External	✓	onlyOwner
	setDistributionSettings	External	1	onlyOwner
	setMaxTxAmount	External	1	onlyOwner
	enableDisableWalletLimit	External	✓	onlyOwner
	setIsWalletLimitExempt	External	1	onlyOwner
	setWalletLimit	External	/	onlyOwner



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



Contract Flow





Domain Info

Domain Name	
Registry Domain ID	2679654923_DOMAIN_COM-VRSN
Creation Date	2022-03-06T13:07:41.00Z
Updated Date	0001-01-01T00:00:00.00Z
Registry Expiry Date	2023-03-06T13:07:41.00Z
Registrar WHOIS Server	whois.namecheap.com
Registrar URL	http://www.namecheap.com
Registrar	NAMECHEAP INC
Registrar IANA ID	1068

The domain has been created 5 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

There are some functions that can be abused by the owner, like manipulating fees and stopping transactions. 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 provides all the essential tools to assist users draw their own conclusions.



The Cyberscope team

https://www.cyberscope.io