

RugFreeCoins Audit



Joker Token Audit
Smart Contract Security Audit
September 11, 2021

Contents

Audit details	1
Disclaimer	2
Background	3
About the project	4
Target market and the concept	8
Potential to grow with score points	12
Total Points	12
Contract details	13
Token distribution	14
Contract code function details	15
Contract description table	16
Security issue checking status	24
Owner privileges	29
Audit conclusion	35

Audit details



Audited project

Joker Token



Contract Address

0xed554ce4d15d83858f57e9996296fcd742e76e24



Client contact

Joker Token Team



Blockchain

Binance smart chain



Project website

https://www.jokercoin.live/

Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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Background

Rugfreecoins was commissioned by Joker Token to perform an audit of the smart contract.

https://bscscan.com/token/0xed554ce4d15d83858f57e9996296fcd742e76e24

The focus of this audit is to verify that the smart contract is secure, resilient and working according to the specifications.

The information in this report should be used to understand the risk exposure of the smart contract, project feasibility, long term sustainability and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

About the project

Joker Token is a token built on the Binance Smart Chain. Each transaction, purchase, and sale incur a 12% fee.

Joker is a coin created by a development team of 16 people who are behind the creation of an e-game peer-to-peer card game called JokerBank. The Joker is based on a community of people.

The goal of Joker is to create a strong community while working to expand its own Joker platform with the JokerBank pilot project already in operation. Joker will bring fresh air to the online entertainment segment in a completely new, unique way. The Joker lives up to its name and does things a little differently - in its own way. In practice, this means a unique e-gaming gamble peer-to-peer game where the Joker will be implemented as a currency.

At a later stage, the Joker aims to conquer the world of live chat and create its own live chat platform in a completely original way. This is all under one platform called the Joker app. Joker app means a revolution in using and understanding cryptocurrencies. The Joker app will unify all lifestyle-related segments within one application and offer users the opportunity to draw various discounts and bonuses according to the volume of coins held.

Project features

- ❖ Joker coin integration with an adult platform where people can make untraceable transactions.
- Joker app with all-in-one place.
- ❖ The project aims to be the first social network connected to real services based on cryptocurrency JOKER.
- Lottery games
- Joker webcam paying service
- Joker's NFT marketplace.
- Joker merch.

Features

- ❖ The fee of 7% when buying will be swapped into BNB and allocated for the lottery pool for lottery games.
- ❖ Investors can accumulate more Joker tokens by just holding as the smart contract automatically distributes 5% of every transaction tax amongst holders when selling tokens.
- ❖ The liquidity fee of 3% when buying and selling, which is a redistribution mechanism that ensures the trading pool always has sufficient liquidity. This is a key element for decentralized exchanges like Pancakeswap.
- ❖ The sustainability fee of 2% marketing when buying and selling is what allows Joker token to hold the aforementioned promise. Tokens will be swapped into BNB and will be sent to a marketing wallet per transaction. This way, Joker token will have enough funds to promote the coin and spend for future development without selling tokens as the traditional way.
- ❖ The fee of 2% when selling is getting sent tokens to the burn wallet, that token burn happens in every transaction.

Tokenomics

12% fee when buying

- ❖ 7% of trade goes to the lottery pool.
- ❖ 3% of trade goes to the liquidity pool.
- 2% of trade goes to marketing.

12% fee when selling

- ❖ 5% of trade goes to holders' pockets in Joker tokens.
- ❖ 3% of trade goes to the liquidity pool.
- 2% of trade goes to marketing.
- 2% of trade goes to the burn wallet.

Roadmap

ROADMAP 2021 Launch of the game's beta version + Web The second game announcement JokerCoin pre-sale DEX Basic marketing campaign JokerCoin fair launch Pancake Swap Establishment of all the social networks TBA collaboration Listing CoinMarketCap and CoinGecko Influencer marketing The full version of the JokerBank Beta version of the second game (TBA) The first listing on small exchanges Launch of the Joker shop - Joker-In-Box TBA collaboration 2 Extensive campaign on JokerBank and Joker Coin Launch of the JokerXmas Giveaway

Q1	The first implementation of the Joker IRL - functional colaborations with first providers in the central Europe. Offline marketing in Europe, online marketing in the whole world Announcement of the visions and functions of the app	TBA collaboration 3 The full version of the second game (TBA)
Q2	Closed - Beta app version Introducing of the JokerCam (implementation of JokerCoin, anonymity, creators support,) Implementation of the coin into the leisure time - adults life (events, massages,)	The third game announcement (TBA) Extension from the Central Europe to the whole of Europe (ambassadors, collaborations with companies - setting up a team in all the countries, telegram of the group) Fork of the Joker Coin on another coin - all the holders get a new coin
Q3	Beta version of JokerCam Launch of focus on the connection to the IRL monetary system The annual anniversary of JokerCoin - spectacular giveaway Beta version of the third game (TBA)	The annual recapitulation and the start of a global campaign with results so far Open - beta app Partner implementation from the whole Europe
n/	The full version of JokerCam The full version of Joker App	Announcement of the fourth game (TBA) Pornstar influencer marketing

The team



Target market and the concept

Target market

- ❖ Anyone who's interested in the Crypto space with long-term investment plans.
- ❖ Anyone who's ready to earn a passive income in Joker tokens by holding tokens.
- Anyone who's interested in trading tokens.
- ❖ Anyone who's interested in making untraceable transactions using Joker token when the project integrates payment method with such platforms.
- ❖ Anyone who's interested in taking part with the Joker app functionalities.
- ❖ Anyone who's interested in having real life as a game experience and gets rewarded.
- ❖ Anyone who's interested in playing Joker lottery games and win rewards.
- Anyone who's interested in taking part with the Joker webcam platform where the users can make payments using Joker tokens.
- ❖ Anyone who's interested in collecting NFTs or trading NFTs.
- ❖ Anyone who's interested in taking part in the future joker activities and ideas.
- Anyone who's interested in making financial transactions with any other party using Joker token as the currency.

Core concept

Adult platform transaction

JOKER is the first cryptocurrency adult coin, that will let users enjoy favorite stuff without any traceable history. All transactions associated with girls, Cannabis, gambling, tobacco, alcohol, nightlife, and many other products and activities will be safe from judgment by others. Joker will provide transactions with approved partners, that do business with industries mentioned above with minimal transaction fees without any traceable history.

Joker app

JOKER unites everything under one JOKERAPP, where users can find barbers, tattoo salons, massages, alcohol groceries, gun shop, play online lottery games, watch webcams, bet on favorite sport plus much more, and get for using every single piece of JOKERAPP experiences, ranks and achievements so they can compete with their friends.

Jokerapp will work as a middleman for transactions between companies and consumers. By companies, mean partners that accept Jokercoin for their goods or services. They can do so only if they are producers or service providers from segments that we like to call an "adult lifestyle". Consumers then represent someone from Jokercoin's community using Jokerapp and its services.

What will make this app unique?

Jokerapp will be so special because of its concept which is one of a kind on the whole market. It connects the demand of companies for promotion, bigger brand awareness, etc. with the demand of consumers for shopping their favorite goods and services even cheaper than the retail prices. Jokerapp will take only negligible fees for mediating these favorable conditions. That will create a triumph situation where all companies, Jokerapp, and consumers are fully satisfied with the outcome.

How does the concept work?

The core of this concept lies in the perfect combination of demand from both companies and consumers. Companies primarily want to gain new customers and increase their turnover and consumers want to buy their favorite goods and services cheaper. Companies will be able to become part of the Jokerapp and utilize its benefits for free! However, they will have to provide something else and that is sales for Jokerapp customers. Consumers will therefore be able to purchase goods and services cheaper than the original price based on how many coins they own! Consumers will simply connect their wallets with Jokerapp and can utilize their benefits based on the amount of Jokercoins held in their accounts. Bigger the amount, the bigger the sales and benefits across the whole Jokerapp. Even though Jokerapp will be mostly about Jokercoins, you will still have the right to pay with any other payment method. Jokerapp users will also be allowed to participate in giveaways, contests, and airdrops. You can apply the same rule here, the bigger the amount of the coins held in your wallet, the bigger the chance to win.

Lottery games

❖ Jokerbank

JOKERs first game. Like other upcoming games, the game is designed to keep money in its community, so there is no playing against casino algorithms. There are NO FEES on buy-ins or withdrawals. The ONLY FEE there is 1% from EVERY WIN.

0.4% of the fee goes to keep Joker servers running and to maintain every single game.

0.6% of the fee goes to **JACKPOTS**, which are also one of a kind. Jackpots are redistributed to players based on some conditions listed in every game.

Jokerplate

It will be also based on cards and the peer-to-peer system where individual players bets against each other.

E-betting and more games

Joker NFT market

JOKER is a huge universe where is a big space for NFT. For the real players, the Joker team will offer NFTs which will make their JOKERAPP profile look unique and astonishing. That means users will be able to buy and sell unique frames, profile pics (if you don't want to upload your real profile pic), and theme pics as NFT on JOKERs NFT market.

Another NFTs will appear in JOKERs games. Players will be able to buy special skins for cards, dice, and many more. There will be also space for special animations which will be shown to other players when you for example win or lose the game. Another important thing to keep in mind is that every deployed NFT will have its original appearance which comes with rarity or serial number. The value of each NFT will be defined by the market but obviously higher the rarity, the higher the demand.

Joker cam

One goal of JOKER is to conquer the world of webcams. Usually, on webcam servers, users are forced to buy tokens to be able to pay girls, but those tokens don't have any other usage. With JOKERs in your JOKERAPP, you will be able to simply pay to girls with JOKERs you own on your wallet. No need to buy another token. With JOKERs in your JOKERAPP, people will be able to pay for all of their favorite stuff in few clicks with zero transfers outside the app.

The lottery pool

7% of each transaction when buying gets sent in tokens to a separate pool allocating to use them for lottery games. This way, the lottery pool will have sufficient tokens to be distributed among the users and will be able to keep the platform in balance since tokens will be circulated in and out.

The token reward system

5% of each transaction when selling gets sent amongst all holders in tokens. The holders will be eligible to receive tokens, whenever a transaction occurs, and rewards are proportional to how many tokens each individual holds.

Sustainable mechanism

The liquidity fee of 3% when buying and selling, which is a redistribution mechanism that ensures the trading pool always has sufficient liquidity.

The fee of 2% marketing when buying and selling is what allows Joker token to promote the token and use funds to further the development of the platform. Tokens will be swapped into BNB and will be sent to a marketing wallet per transaction. This way, Joker tokens will have access to the funds without selling tokens as the traditional way, which will enable them to consume funds without hurting the project.

Joker token has the burn strategy that benefits and rewards those who invest long-term. It charges a 2% fee when selling from the holders. This feature slowly reduces supply making Joker token prices more and more valuable.

Potential to grow with score points

1.	1. Project efficiency		
2.	Project uniqueness	10/10	
3	Information quality	10/10	
4	Service quality	9/10	
5	System quality	10/10	
6	6 Impact on the community		
7	7 Impact on the business		
8	Preparing for the future	10/10	
Total	9.88/10		

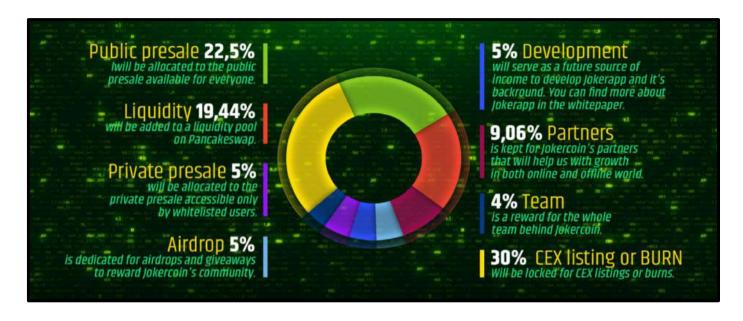
Contract details

Token contract details for 11th September 2021

Contract name	JokerCoin
Contract address	0xed554ce4d15d83858f57e9996296fcd742e76e24
Token supply	1,000,000,000
Token ticker	JOKER
Decimals	9
Token holders	14
Transaction count	89
Marketing wallet address	0x9df248a4a16572c84fce06bcc5de75cb50f9cb60
Contract deployer address	0x6A967a86436FF75bfd943b1C546B6C26582DE9A8
Contract's current owner address	0x6a967a86436ff75bfd943b1c546b6c26582de9a8

Token distribution

Tokens are distributed as follows:



Contract code function details

No	Category	Item	Result
		BRC20 Token standards	pass
		compile errors	pass
		Compiler version security	pass
		visibility specifiers	pass
		Gas consumption	low issue
1	Coding conventions	SafeMath features	pass
		Fallback usage	pass
		tx.origin usage	pass
		deprecated items	pass
		Redundant code	pass
		Overriding variables	pass
	Function call audit	Authorization of function call	pass
2		Low level function (call/delegate call) security	pass
		Returned value security	pass
		Selfdestruct function security	pass
	Business security	Access control of owners	informational
3		Business logics	pass
		Business implementations	low issue
4	Integer overflow/underflow		pass
5	Reentrancy		pass
6	Exceptional reachable state		pass
7	Transaction ordering dependence		pass
8	Block properties dependence		pass
9	Pseudo random number generator (PRNG)		pass
10	DoS (Denial of Service)		pass
11	Token vesting implementation		pass
12	Fake deposit		pass
13	Event security		pass

Contract description table

Below table represents the summary of the contracts and methods in the token contract. We scanned the whole contract and listed down all the Interfaces, functions and implementations with its visibility and mutability.

Contract	Туре	Bases		
L	Function Name	Visibility	Mutability	Modifiers
IBEP20	Interface			
L	totalSupply	External		NO
L	balanceOf	External		NO
L	transfer	External		NO
L	allowance	External		NO
L	approve	External		NO
L	transferFrom	External		NO
SafeMath	Library			
L	add	Internal 🦲		
L	sub	Internal 🦲		
L	sub	Internal 🦲		
L	mul	Internal 🦲		
L	div	Internal 🦲		
L	div	Internal 🦲		
L	mod	Internal 🦺		
L	mod	Internal 🦺		
Context	Implementation			
L	_msgSender	Internal 🦺		
L	_msgData	Internal 🦲		

Address	Library		
L	isContract	Internal 🖺	
L	sendValue	Internal 🦺	
L	functionCall	Internal 🖺	
L	functionCall	Internal 🖺	
L	functionCallWithV alue	Internal 🖺	
L	functionCallWithV alue	Internal 🖺	
L	_functionCallWith Value	Private P	
Ownable	Implementation	Context	
L		Public	NO
L	owner	Public	NO
L	renounceOwnershi p	Public	onlyOwner
L	transferOwnership	Public	onlyOwner
L	geUnlockTime	Public	NO
L	lock	Public	onlyOwner
L	unlock	Public	NO.
IPancakeFactory	Interface		
L	feeTo	External	NO
L	feeToSetter	External	NO
L	getPair	External	NO.
L	allPairs	External	NO.
L	allPairsLength	External	NO.
L	createPair	External	NO.
L	setFeeTo	External [NO.

L	setFeeToSetter	External		NO.
IPancakePair	Interface			
L	name	External .		NO
L	symbol	External .		NO
L	decimals	External		NO
L	totalSupply	External		NO.
L	balanceOf	External .		NO
L	allowance	External .		NO
L	approve	External		NO
L	transfer	External .		NO
L	transferFrom	External .		NO
L	DOMAIN_SEPAR ATOR	External .		NO
L	PERMIT_TYPEHA SH	External .		NO
L	nonces	External .		NO
L	permit	External .		NO
L	MINIMUM_LIQUID ITY	External .		NO
L	factory	External		NO
L	token0	External .		NO
L	token1	External		NO
L	getReserves	External		NO
L	price0CumulativeL ast	External		NO.
L	price1CumulativeL ast	External .		NO.
L	kLast	External		NO
L	mint	External		NO
L	burn	External		NO

L	swap	External		NO
L	skim	External		NO.
L	sync	External		NO.
L	initialize	External		NO.
	i i i i i i i i i i i i i i i i i i i	External 8		1108
IPancakeRouter01	Interface			
L	factory	External		NO.
L	WETH	External		NO.
L	addLiquidity	External		NO.
L	addLiquidityETH	External		NO!
L	removeLiquidity	External		NO!
	removeLiquidityET		_	
L	H	External		NO
L	removeLiquidityWi thPermit	External .		NO
L	removeLiquidityET HWithPermit	External		NO
L	swapExactTokens ForTokens	External .		NO.
L	swapTokensForEx actTokens	External .		NO
L	swapExactETHFor Tokens	External	d D	NO
L	swapTokensForEx actETH	External		NO.
L	swapExactTokens ForETH	External		NO
L	swapETHForExact Tokens	External	uр	NO.
L	quote	External		NO.
L	getAmountOut	External		NO
L	getAmountIn	External		NO
L	getAmountsOut	External		NO
L	getAmountsIn	External		NO.

		IPancakeRouter0		
IPancakeRouter02	Interface	1		
L	removeLiquidityET HSupportingFeeO nTransferTokens	External		NO.
L	removeLiquidityET HWithPermitSupp ortingFeeOnTransf erTokens	External		NO.
L	swapExactTokens ForTokensSupport ingFeeOnTransfer Tokens	External		NO.
L	swapExactETHFor TokensSupporting FeeOnTransferTo kens	External	(J)	NO.
L	swapExactTokens ForETHSupporting FeeOnTransferTo kens	External		NO.
Utils	Library			
L	swapTokensForEt h	Internal <u></u>		
L	swapETHForToke ns	Internal <u></u>		
L	addLiquidity	Internal 🦲		
ReentrancyGuard	Implementation			
L		Public		NO
		_	_	
		•	_	
JOKER	Implementation	Context, IBEP20, Ownable, ReentrancyGuard		
JOKER	Implementation	Context, IBEP20, Ownable,		NO.
	Implementation	Context, IBEP20, Ownable, ReentrancyGuard		NO.

L		5 t !! 1	NO
	decimals	Public	NO.
L	totalSupply	Public	NO
L	balanceOf	Public	NO
L	transfer	Public	NO
L	allowance	Public	NO
L	approve	Public	NO
L	transferFrom	Public	NO
L	increaseAllowance	Public	NO
L	decreaseAllowanc e	Public	NO
L	isExcludedFromR eward	Public .	NO.
L	totalFees	Public	NO.
L	deliver	Public	NO.
L	reflectionFromTok en	Public .	NO
L	tokenFromReflecti on	Public	NO
L	excludeFromRewa rd	Public	onlyOwner
L	includeInReward	External	onlyOwner
L	setMaxTxPercent	Public [onlyOwner
L	setMinTokenNumb erToSell	Public	onlyOwner
L	setExcludeFromM axTx	Public	onlyOwner
L	setBuyback	Public	onlyOwner
L	includeAndExclud eFromFee	Public	onlyOwner
L	includeAndExclud eFromBuyFee	Public	onlyOwner
L	includeAndExclud eFromSellFee	Public	onlyOwner
L	setTaxFeePercent	External	onlyOwner

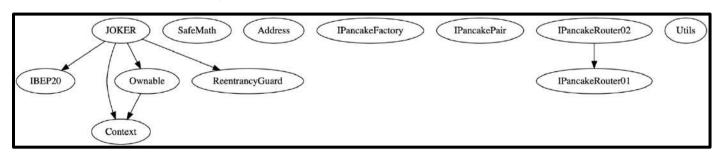
L	setLiquidityFeePer cent	External		onlyOwner
L	setLotteryFeePerc ent	External		onlyOwner
L	setMarketFeePerc ent	External		onlyOwner
L	setBurnFeePercen t	External .		onlyOwner
L	setMinBuy	External		onlyOwner
L	setTimeForSniping	External		onlyOwner
L	startTrading	External		onlyOwner
L	setSwapAndLiquif yEnabled	Public		onlyOwner
L	setReflectionFees	External		onlyOwner
L	setMarketAddress	External		onlyOwner
L	setPancakeRouter	External		onlyOwner
L	setLotteryPools	External		onlyOwner
L	setLotteryPoolsPe rcent	External		onlyOwner
L		External	GD	NO
L	totalFeePerTx	Internal 🦺		
L	_reflectFee	Private P		
L	_getRate	Private P		
L	_getCurrentSupply	Private P		
L	_takeBothPoolFee	Internal 🦺		
L	_takeMarketFee	Internal 🦺		
L	_takeBurnFee	Internal 🖺		
L	removeAllFee	Private P		
L	removeBuyFee	Private P		
L	removeSellFee	Private 🖺		
L	restoreAllFee	Private 🖺		
L	isExcludedFromFe e	Public		NO.

L	_approve	Private 🖺	
L	getContractBalanc e	Public	NO
L	getCurrentPrice	Public	NO.
L	_addSniperInList	External	onlyOwner
L	_removeSniperFro mList	External	onlyOwner
L	_transfer	Private P	
L	_tokenTransfer	Private P	
L	_transferStandard	Private P	
L	_transferToExclud ed	Private 🕙	
L	_transferFromExcl uded	Private 🕙	
L	_transferBothExcl uded	Private 🕙	
L	checkLottery	Internal 🦺	
L	distributeLottery	Internal 🦺	
L	swapAndLiquify	Private 🖺	

Legend

Symbol	Meaning	
	Function can modify state	
ű þ	Function is payable	

Inheritance Hierarchy



Security issue checking status

- High severity issues
 - No high severity issues found.
- Medium severity issues
 - No medium severity issues found.
- Low severity issues
 - In the includeInReward,getCurrentSupply, and removeSniperList functions, if they use a long wallet list there can be an OUT_OF_GAS issue, better to use a small array list at once.

❖ The addLiquidity function calls the uniswapV2Router.addLiquidityETH function with the address specified as owner() for acquiring the generated LP tokens from the Joker Token-BNB pool. As a result, over time the _owner address will accumulate a significant portion of LP tokens. If the _owner is an EOA(Externally Owned Account), mishandling of its private key can have devastating consequences to the project as a whole.

```
ftrace | funcSig
function addLiquidity(
    address routerAddress*,
    address owner1,
    uint256 tokenAmount*,
    uint256 ethAmount1
) internal {
    IPancakeRouter02 pancakeRouter = IPancakeRouter02(routerAddress1);
    pancakeRouter.addLiquidityETH{value: ethAmount 1}(
        address(this),
        tokenAmount*,
        0, // slippage is unavoidable
        0, // slippage is unavoidable
        owner*,
        block.timestamp + 360
    );
```

Recommendation

We advise the address of the uniswapV2Router.addLiquidityETH function call to be replaced by the contract itself.

❖ Informational

• The owner can change the Snipping time

The owner can add sniping time so if someone tries to sell tokens within less than launch time+ snipping time they will blacklist from the contract currently owner can change this any time without any limitation.

Recommendation

- 1. Remove this function and add necessary snipping time in the contract (hard code).
- 2. Make this function to call only one time.

```
ftrace|funcSig
function setTimeForSniping(uint256 _time1) external onlyOwner {
    antiSnipingTime = _time1;
}
```

The owner can change the max transaction amount without any limitation.

Recommendation

Add validation to set minimum transaction amount.

The owner can change all fees without any limit.

Recommendation

Add validation to a maximum fee.

```
ftrace | funcSig
function setTaxFeePercent(uint256 taxFee1) external onlyOwner {
    _taxFee = taxFee1;
ftrace | funcSig
function setLiquidityFeePercent(uint256 liquidityFee1) external onlyOwner {
    _liquidityFee = liquidityFee1;
}
ftrace | funcSig
function setLotteryFeePercent(uint256 lotteryFee1) external onlyOwner {
    _lotteryFee = lotteryFee1;
ftrace | funcSig
function setMarketFeePercent(uint256 marketFee1) external onlyOwner {
    _marketFee = marketFee :
ftrace | funcSig
function setBurnFeePercent(uint256 burnFee1) external onlyOwner {
    _burnFee = burnFee1;
```

Owner privileges

❖ The owner can renounce and transfer ownership.

The owner can include and exclude wallets from rewards.

```
ftrace | funcSig
function excludeFromReward(address account 1) public onlyOwner {
    require(!_isExcluded[account 1], "Account is already excluded");
    if (_r0wned[account 1] > 0) {
        tOwned[account 1] = tokenFromReflection(_rOwned[account 1]);
    isExcluded[account 1] = true;
    excluded.push(account 1);
}
ftrace | funcSig
function includeInReward(address account 1) external onlyOwner {
    require( isExcluded[account 1], "Account is already excluded");
    for (uint256 i = 0; i < _excluded.length; i++) {
        if ( excluded[i] == account1) {
            excluded[i] = excluded[ excluded.length - 1];
            rOwned[account 1] = tOwned[account 1].mul( getRate());
             tOwned[account 1] = 0;
            isExcluded[account 1] = false;
            _excluded.pop();
            break;
```

The owner can change max transaction percentage.

The owner can set a minimum number of tokens to sell to add buyback.

❖ The owner can exclude wallets from max transaction amount.

```
ftrace|funcSig
function setExcludeFromMaxTx(address _address f, bool value f)
    public
    onlyOwner
{
        isExcludedFromMaxTx[_address f] = value f;
}
```

The owner can set buyback settings.

```
ftrace|funcSig
function setBuyback(
    uint256 _upperAmount1,
    uint256 _lowerAmount1,
    bool _state1
) public onlyOwner {
    buyBackEnabled = _state1;
    buyBackUpperLimit = _upperAmount1;
    buyBackLowerLimit = _lowerAmount1;
}
```

❖ The owner can include/exclude wallets from normal, sell and buy fees.

The owner can blacklist wallets.

The owner can change all fees.

❖ The owner can set a minimum buy amount.

```
ftrace|funcSig
  function setMinBuy(uint256 _minBuy1) external onlyOwner {
     minBuy = _minBuy1;
}
```

The owner can change the Sniping time.

```
ftrace|funcSig
function setTimeForSniping(uint256 _time 1) external onlyOwner {
    antiSnipingTime = _time 1;
}
```

The owner can enable trading.

```
ftrace|funcSig
function startTrading() external onlyOwner {
    __tradingOpen = true;
    __launchTime = block.timestamp;

swapAndLiquifyEnabled = true;

// approve contract
    __approve(address(this), address(pancakeRouter), 2**256 - 1);
}
```

The owner can enable swap and liquidity add.

```
ftrace|funcSig

function setSwapAndLiquifyEnabled(bool _state1) public onlyOwner {
    swapAndLiquifyEnabled = _state1;
    emit SwapAndLiquifyEnabledUpdated(_state1);
}
```

❖ The owner can enable and disable the reward fee.

```
ftrace|funcSig
function setReflectionFees(bool _state*) external onlyOwner {
    reflectionFeesdiabled = _state*;
}
```

The owner can change the marketing and router address.

```
ftrace|funcSig
function setMarketAddress(address payable _marketAddress t)
    external
    onlyOwner
{
    marketWallet = _marketAddress t;
}

ftrace|funcSig
function setPancakeRouter(IPancakeRouter02 _pancakeRouter t)
    external
    onlyOwner
{
    pancakeRouter = _pancakeRouter t;
}
```

Audit conclusion

While conducting the audit of the Joker token smart contract, it was observed that there is nothing alarming with the code, and it only contains low severity issues and informational concerns.