

RugFreeCoins Audit



JRR Token Audit
Smart Contract Security Audit
September 10, 2021

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Audit details



Audited project

JRR Token



Contract Address

0x8d46739bb6ad55ae438d921cb130afb27e74b46e



Client contact

JRR Token Team



Blockchain

Binance smart chain



Project website

https://www.thetokenofpower.com/

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 JRR Token to perform an audit of the smart contract.

https://bscscan.com/token/0x8d46739bb6ad55ae438d921cb130afb27e74b46e

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

JRR token is a token built on the Binance Smart Chain. Each transaction, purchase and sale incur a fee of 9%.

Features

- ❖ Investors can accumulate more JRR tokens by just holding as the smart contract automatically distributes 3% of every transaction tax amongst holders.
- ❖ The liquidity fee of 3%, which is a redistribution mechanism that ensures the trading pool always has sufficient liquidity. This is a key element for decentralized exchanges like Pancakeswap.
- ❖ 3% is sent to a wallet for marketing and charity. Having the resources necessary to deliver a meticulously marketed project, such as professional branding, paid influencers, charity and donations JRR token the ability for substantial growth.

Tokenomics

9% fee when buying & selling

- ❖ 3% of trade goes to holders pockets in token.
- 3% of trade goes to the liquidity pool.
- 3% of trade goes to marketing and charity.

Roadmap

ROAD MAP

Q2 2021

CORE TEAM DEVELOPMENT
SOCIAL MEDIA ACCOUNTS
WEBSITE LAUNCH
MARKETING CAMPAIGN
DX SALE LISTING
PANCAKESWAP LISTING

Q3 2021

NFT LAUNCH
EXCHANGE LISTINGS
INTERVIEWS & INFLUENCERS
CHARITY CONTRIBUTIONS

Q4 2021

INCREASED MARKETING PUSH
SECOND NFT RELEASE

Target market and the concept

Target market

- Anyone who's interested in Crypto space with long term investment plans.
- ❖ Anyone who's ready to earn a passive income in JR tokens by holding tokens.
- Anyone who's interested in trading tokens.
- Anyone who's interested in taking part with the future plans of the project.
- Anyone who's interested in taking part with the good cause of charity of the project.
- ❖ Anyone who's interested in collecting NFTs or trading NFTs.
- Anyone who's interested in making financial transactions with any other party using JRR token as the currency.

Core concept

The reward system

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

The **fee of 3% development & charity** is what allows JRR to promote the token and use funds to further development of the platform.

Good cause

Charity donations to an educational foundation and multiple environment charities.

JRR NFTs









GOALS FOR 2021-2022

ROUND TWO OF JRR TOKENS NFTS WILL BE RELEASED WHEN 1000 HOLDERS ARE OBTAINED

CHARITY DONATIONS TO THE TOLKIEN FOUNDATION (an educational charity) AND MULTIPLE ENVIRONMENTAL CHARITIES

JRR TOKEN BELIEVES THAT THE INTEGRATION BETWEEN ONLINE GAMING, THE USE OF CRYPTOCURRENCY AS IN-GAME PAYMENT AND NFT FUNCTIONALITY IS THE FUTURE OF ONLINE GAMING, MORE INFO TO COME.....

Potential to grow with score points

1.	Project efficiency	8/10
2.	Project uniqueness	8/10
3	Information quality	10/10
4	Service quality	9/10
5	System quality	8/10
6	Impact on the community	10/10
7	Impact on the business	8/10
8	Preparing for the future	8/10
Total	8.63/10	

Contract details

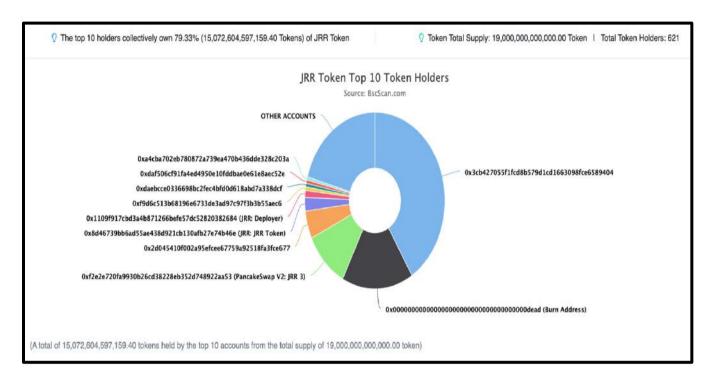
Token contract details for 10th September 2021

Contract name	JRR Token
Contract address	0x8d46739bb6ad55ae438d921cb130afb27e74b46e
Token supply	19,000,000,000
Token ticker	JRR
Decimals	9
Token holders	621
Transaction count	2,037
Dev wallet address	0x1109f917cbd3a4b871266befe57dc52820382684
Contract deployer address	0x1109f917CbD3a4B871266bEfE57dC52820382684
Contract's current owner address	0x1109f917cbd3a4b871266befe57dc52820382684

Top token holders

Top 10 Token Holders

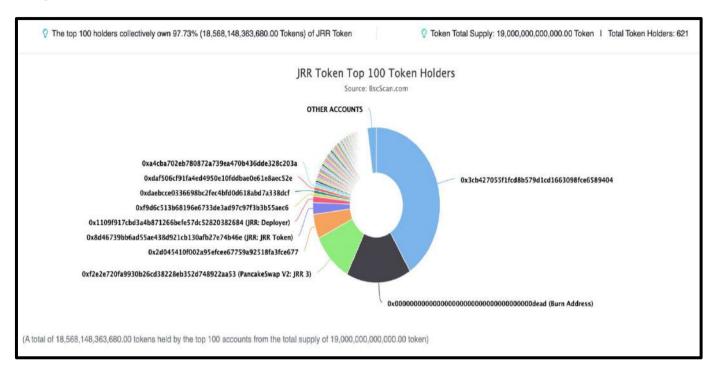
Note: 0x3cb427055f1fcd8b579d1cd1663098fce6589404: 41.15% tokens held in this address are considered burned since it will remain locked in the Dxsale.



Rank	Address	Quantity (Token)	Percentage
1	① 0x3cb427055f1fcd8b579d1cd1663098fce6589404	7,818,492,512,470.702270142	41.1500%
2	Burn Address	3,130,017,270,267.79238245	16.4738%
3	PancakeSwap V2: JRR 3	1,972,079,568,107.088014468	10.3794%
4	① 0x2d045410f002a95efcee67759a92518fa3fce677	967,828,339,644.512500333	5.0938%
5	∄ JRR: JRR Token	466,059,652,999.652410194	2.4529%
6	JRR: Deployer	243,403,242,430.05277084	1.2811%
7	0xf9d6c513b68196e6733de3ad97c97f3b3b55aec6	125,157,190,626.237543792	0.6587%
8	0xdaebcce0336698bc2fec4bfd0d618abd7a338dcf	121,185,102,027.572995743	0.6378%
9	0xdaf506cf91fa4ed4950e10fddbae0e61e8aec52e	120,368,125,995.09836935	0.6335%
10	0xa4cba702eb780872a739ea470b436dde328c203a	108,013,592,590.603715584	0.5685%

Token distribution

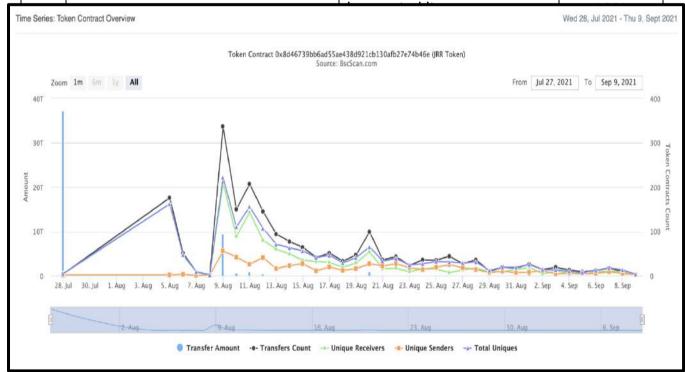
Top 100 Token Holders



Contract interaction details

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



/	Transaction ordening 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
IERC20	Interface			
L	totalSupply	External 🌡		ио[
L	balanceOf	External 🎚		ио[
L	transfer	External 🎚		ио[
L	allowance	External 🌡		ио[
L	approve	External 🌡		ио[
L	transferFrom	External 🌡		NO[
	,			
SafeMath	Library			
L	tryAdd	Internal 🖺		
L	trySub	Internal 🖺		
L	tryMul	Internal 🖺		

L	tryDiv	Internal 🖺	
L	tryMod	Internal 🖺	
L	add	Internal 🖺	
L	sub	Internal 🖺	
L	mul	Internal 🖺	
L	div	Internal 🖺	
L	mod	Internal 🖺	
L	sub	Internal 🖺	
L	div	Internal 🖺	
L	mod	Internal 🖺	
Context	Implementation		
L	_msgSender	Internal 🖺	
L	_msgData	Internal 🖺	
Address	Library		
L	isContract	Internal 🖺	
L	sendValue	Internal <u></u>	
L	functionCall	Internal 🖺	

L	functionCall	Internal 🖺	
L	functionCallWithV alue	Internal 🖺	
L	functionCallWithV alue	Internal 🖺	
L	functionStaticCall	Internal 🖺	
L	functionStaticCall	Internal 🖺	
L	functionDelegateC all	Internal 🖺	
L	functionDelegateC all	Internal 🖺	
L	_verifyCallResult	Private 🖺	
Ownable	Implementation	Context	
L		Public [NO
L	owner	Public [NO
L	renounceOwnershi p	Public [onlyOwner
L	transferOwnership	Public [onlyOwner
L	lock	Public [onlyOwner
L	unlock	Public [NO
IUniswapV2Factory	Interface		
L	feeTo	External 🎚	NO[

L	feeToSetter	External 🎚	ио[]
L	getPair	External [NO[
L	allPairs	External [МО[
L	allPairsLength	External [МО[
L	createPair	External [МО[
L	setFeeTo	External [МО[
L	setFeeToSetter	External [МО[
IUniswapV2Pair	Interface		
L	name	External 🌡	NO[
L	symbol	External 🌡	МО[
L	decimals	External [МО[
L	totalSupply	External [NO[
L	balanceOf	External [NO[
L	allowance	External [МО[
L	approve	External [NO[
L	transfer	External 🎚	NO[
L	transferFrom	External 🌡	NOÏ

L	DOMAIN_SEPAR ATOR	External [NO
L	PERMIT_TYPEHA SH	External [МО[
L	nonces	External [NO[
L	permit	External [МО[
L	MINIMUM_LIQUID ITY	External [NO[
L	factory	External [МО[
L	token0	External [МО[
L	token1	External [МО[
L	getReserves	External [МО[
L	price0CumulativeL ast	External [МО[
L	price1CumulativeL ast	External [МО[
L	kLast	External [МО[
L	mint	External [NO[
L	burn	External [МО[
L	swap	External [МО[
L	skim	External [NO[
L	sync	External [NO[
L	initialize	External 🏿	NO[

IUniswapV2Router01	Interface			
L	factory	External [NO
L	WETH	External [NO
L	addLiquidity	External [NO
L	addLiquidityETH	External [ab	NO
L	removeLiquidity	External [NO
L	removeLiquidityET 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 [a b	NO
L	swapTokensForEx actETH	External [NO
L	swapExactTokens ForETH	External [NO
L	swapETHForExact Tokens	External [<u>aip</u>	NO
L	quote	External [NO
L	getAmountOut	External [NO

L	getAmountIn	External [NO
L	getAmountsOut	External [NO
L	getAmountsIn	External [NO
IUniswapV2Router02	Interface	IUniswapV2Router 01		
L	removeLiquidityET HSupportingFeeO nTransferTokens	External [ио[]
L	removeLiquidityET HWithPermitSupp ortingFeeOnTransf erTokens	External [ио[
L	swapExactTokens ForTokensSupport ingFeeOnTransfer Tokens	External [ио[
L	swapExactETHFor TokensSupporting FeeOnTransferTo kens	External [ФÞ	ио[]
L	swapExactTokens ForETHSupporting FeeOnTransferTo kens	External 🎚		ио[]
CoinToken	Implementation	Context, IERC20, Ownable		
L		Public [ab	NOÏ
L	name	Public [NO
L	symbol	Public		NO

decimals	Public [МОД
totalSupply	Public [NO[
balanceOf	Public [NO[
transfer	Public [NO[
allowance	Public [NO[
approve	Public [NO[
transferFrom	Public [NO[
increaseAllowance	Public [NO[
decreaseAllowanc e	Public [NO[
isExcludedFromR eward	Public [NO[
totalFees	Public [МО[
deliver	Public [NO[
reflectionFromTok en	Public [NO[
tokenFromReflecti on	Public [NO[
excludeFromRewa rd	Public [onlyOwner
includeInReward	External [onlyOwner
_transferBothExcl uded	Private 🖺		
excludeFromFee	Public [onlyOwner
	totalSupply balanceOf transfer allowance approve transferFrom increaseAllowance decreaseAllowance isExcludedFromR eward totalFees deliver reflectionFromTok en tokenFromReflecti on excludeFromRewa rd includeInReward _transferBothExcl uded	totalSupply balanceOf Public transfer Public allowance Public Public approve Public transferFrom Public increaseAllowance Public decreaseAllowance Public totalFees Public totalFees Public Public totalFees Public Public reflectionFromTok en tokenFromReflecti on Public Public Public Public TeflectionFromTok en Public Public Public TeflectionFromTok en Public Public Public Public TeflectionFromReflecti on Public Public Public Public Publi	totalSupply balanceOf Public transfer Public allowance Public approve Public Public transferFrom Public increaseAllowance Public decreaseAllowance Public isexcludedFromR eward Public totalFees Public deliver Public Public totalFees Public deliver Public public totalFees Public deliver Public public totalFees Public totalFees Public totalFees Public totalFees Public totalFees Public totalFees Public TeflectionFromTok en Public tokenFromReflecti on Public tokenFromReflecti on ExcludeFromRewa rd Public Public TernaferBothExcl uded Private Private

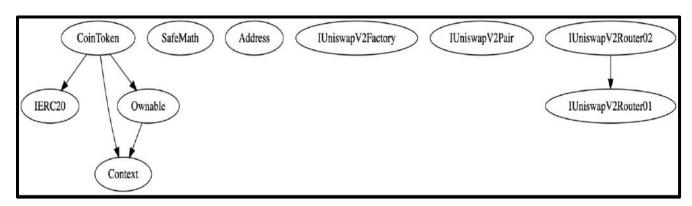
L	includeInFee	Public [onlyOwner
L	setTaxFeePercent	External [onlyOwner
L	setDevFeePercent	External [onlyOwner
L	setLiquidityFeePer cent	External 🌡		onlyOwner
L	setMaxTxPercent	Public [onlyOwner
L	setDevWalletAddr ess	Public [onlyOwner
L	setSwapAndLiquif yEnabled	Public [onlyOwner
L		External [<u>CD</u>	NO
L	_reflectFee	Private 省		
L	_getValues	Private 省		
L	_getTValues	Private 🖺		
L	_getRValues	Private 🖺		
L	_getRate	Private 省		
L	_getCurrentSupply	Private 🖺		
L	_takeLiquidity	Private 🖺		
L	_takeDev	Private 🖺		
L	calculateTaxFee	Private 🖺		
L	calculateDevFee	Private 🖺		

L	calculateLiquidityF ee	Private 🖺	
L	removeAllFee	Private 🖺	
L	restoreAllFee	Private 🖺	
L	isExcludedFromFe e	Public [NO
L	_approve	Private 🖺	
L	_transfer	Private 🖺	
L	swapAndLiquify	Private 🖺	lockTheSwap
L	swapTokensForEt h	Private 🖺	
L	addLiquidity	Private 🖺	
L	_tokenTransfer	Private 🖺	
L	_transferStandard	Private 🖺	
L	_transferToExclud ed	Private 🖺	
L	_transferFromExcl uded	Private 🖺	
L	setRouterAddress	External [onlyOwner
L	setNumTokensSell ToAddToLiquidity	External 🌡	onlyOwner

Symbol	Meaning
	Function can modify state

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

Out of gas issue.

In the includeInReward function, 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 JRR Token-BNB pool. As a result, over time the _owner address will accumulate a significant portion of LP tokens. If the _owner is

```
ftrace|funcSig

function addLiquidity(uint256 tokenAmount*, uint256 ethAmount*) private {
    _approve(address(this), address(uniswapV2Router), tokenAmount*);
    uniswapV2Router.addLiquidityETH{value: ethAmount*}(
        address(this),
        tokenAmount*,
        0, // slippage is unavoidable
        0, // slippage is unavoidable
        owner(),
        block.timestamp
    );
}
```

an EOA(Externally Owned Account), mishandling of its private key can have devastating consequences to the project as a whole.

Recommendation

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

Owner privileges

❖ The owner can renounce and transfer the 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 *);
ftrace | funcSig
function includeInReward(address account 1) external onlyOwner {
    require( isExcluded[account 1], "Account is already included");
    for (uint256 i = 0; i < _excluded.length; i++) {
        if (_excluded[i] == account1) {
            _excluded[i] = _excluded[_excluded.length - 1];
            _tOwned[account 1] = 0;
            isExcluded[account | ] = false;
            _excluded.pop();
            break;
```

❖ The owner can include and exclude wallets from fee.

❖ The owner can change tax, dev and liquidity fees.

The owner can change the max transaction amount.

The owner can change the dev wallet address.

The owner can enable and disable liquidity adding.

```
ftrace|funcSig
  function setSwapAndLiquifyEnabled(bool _enabled1) public onlyOwner {
      swapAndLiquifyEnabled = _enabled1;
      emit SwapAndLiquifyEnabledUpdated(_enabled1);
}
```

The owner can change the router address.

```
ftrace|funcSig
function setRouterAddress(address newRouter1) external onlyOwner {
    IUniswapV2Router02 _uniswapV2Router = IUniswapV2Router02(newRouter1);
    uniswapV2Pair = IUniswapV2Factory(_uniswapV2Router.factory())
        .createPair(address(this), _uniswapV2Router.WETH());
    uniswapV2Router = _uniswapV2Router;
}
```

The owner can change the swap point.

Audit conclusion

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