COINSCOPE

Audit Report

JOKE Community

December 2021

Type	BEP20
Address	0x2df0c13487efdf4eb7f6c042273b7aca781b29a0
Audited by	© coinscope

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Contract Review

Contract Name	JOKECOMMUNITY
Compiler Version	v0.6.12+commit.27d51765
Optimization	200 runs
Licence	None
Explorer	https://bscscan.com/token/0x2df0c13487efdf4eb7f6c042273b7aca781b29a0
Symbol	JOKE
Decimals	9
Total Supply	7,350,000,000
Website	https://joke.community/

Audit Updates

Initial Audit	8th of December 2021
Corrected	12th of December 2021

Contract Analysis

Pass	Resolved	Description
✓		Contract Owner is not able to mint new tokens
✗	✓	Contract Owner is not able to burn tokens from specific wallets
✗	✓	Contract Owner is not able to increase fees more than a reasonable percent (25%)
✗	✓	Contract Owner is not able to stop or pause transactions
✓		Contract Owner is not able to transfer tokens from specific address
✓		Contract Owner is not able to increase the amount of liquidity taken by dev wallet more than a reasonable percent
✓		Contract Owner is not able to blacklist wallets from selling
✓		Liquidity Pool is locked

ST - Stop Transactions with Locked Flag

Criticality	high
Location	https://bscscan.com/address/0x2df0c13487efdf4eb7f6c042273b7aca781b29a0#code#L1234
Status	Resolved

Description

The contract owner has the authority to stop transactions. The owner may take advantage of it by setting the `locked` to zero.

```
function transferLock() public onlyOwner {
    locked = true;
}
```

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.

Resolved

The team locked the contract and has no longer access to owner functions. The contract will be locked until 10 January 2022
https://bscscan.com/tx/0x7bd85dd8c8c7c77a52d0e49c10a7044c5a9296606b8383d85f30a785d897da69

ST - Stop Transactions with Max Amount

Criticality	high
Location	https://bscscan.com/address/0x2df0c13487efdf4eb7f6c042273b7aca781b29a0#code#L1063
Status	Resolved

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` to zero.

```
if(from != owner() && to != owner())
   require(amount <= _maxTxAmount, "Transfer amount exceeds the maxTxAmount.");
```

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.

Resolved

The team locked the contract and has no longer access to owner functions. The contract will be locked until 10 January 2022
https://bscscan.com/tx/0x7bd85dd8c8c7c77a52d0e49c10a7044c5a9296606b8383d85f30a785d897da69

BT - Burn Tokens

Criticality	high
Location	https://bscscan.com/address/0x2df0c13487efdf4eb7f6c042273b7aca781b29a0#code#L1228
Status	Resolved

Description

The contract owner has the authority to burn tokens from a specific address. The owner may take advantage of it by calling the `burn` function. As a result the targeted contract address will lose the corresponding tokens.

```
function burn(address _from, uint256 _amount) public onlyOwner {
    _burn(_from, _amount);
}
```

Recommendation

The owner should carefully manage the credentials of the owner's account. We advised considering an extra-strong security mechanism that the actions may be quarantined by many users instead of one. The owner could also renounce the contract ownership for a period of time or pass the access to the zero address.

Resolved

The team locked the contract and has no longer access to owner functions. The contract will be locked until 10 January 2022
https://bscscan.com/tx/0x7bd85dd8c8c7c77a52d0e49c10a7044c5a9296606b8383d85f30a785d897da69

UIF - Unlimited Increase Fees

Criticality	high
Location	https://bscscan.com/address/0x2df0c13487efdf4eb7f6c042273b7aca781b29a0#code#L1008,L1014,L1020
Status	Resolved

Description

The contract owner has the authority to increase fees without limit. The owner may take advantage of it by calling the `setTaxFee` function with a high percentage value.

```
function setTaxFee(uint256 _newTaxFee) public onlyOwner {
    require(_newTaxFee != 0, "newTaxFee can not be Zero amount");
    _taxFee = _newTaxFee;
    _previousTaxFee = _taxFee;
}
```

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.

Resolved

The team locked the contract and has no longer access to owner functions. The contract will be locked until 10 January 2022
https://bscscan.com/tx/0x7bd85dd8c8c7c77a52d0e49c10a7044c5a9296606b8383d85f30a785d897da69

Contract Diagnostics

Pass	Name
✓	Integer Underflow
✓	Parity Multisig Bug
✓	Callstack Depth Attack
✓	Transaction-Ordering Dependency
✓	Timestamp Dependency
✓	Re-Entrancy

Contract Functions

Contract	Type	Bases		
	Function Name	**Visibility**	**Mutability**	**Modifiers**
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
SafeMath	Library			
	add	Internal		
	sub	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		

	div	Internal		
	mod	Internal		
	mod	Internal		
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
Address	Library			
	isContract	Internal		
	sendValue	Internal	✓	
	functionCall	Internal	✓	
	functionCall	Internal	✓	
	functionCallWithValue	Internal	✓	
	functionCallWithValue	Internal	✓	
	_functionCallWithValue	Private	✓	
Ownable	Implementation	Context		
		Internal	✓	

	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	geUnlockTime	Public		-
	lock	Public	✓	onlyOwner
	unlock	Public	✓	-
Roles	Library			
	add	Internal	✓	
	remove	Internal	✓	
	has	Internal		
IUniswapV2Factory	Interface			
	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-

	allPairsLength	External		-
	createPair	External	✓	-
	setFeeTo	External	✓	-
	setFeeToSetter	External	✓	-
IUniswapV2Pair	Interface			
	name	External		-
	symbol	External		-
	decimals	External		-
	totalSupply	External		-
	balanceOf	External		-
	allowance	External		-
	approve	External	✓	-
	transfer	External	✓	-
	transferFrom	External	✓	-
	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	✓	-
	swap	External	✓	-
	skim	External	✓	-
	sync	External	✓	-
	initialize	External	✓	-
IUniswapV2Router01	Interface			
	factory	External		-
	WETH	External		-

	addLiquidity	External	✓	-
	addLiquidityETH	External	Payable	-
	removeLiquidity	External	✓	-
	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		-

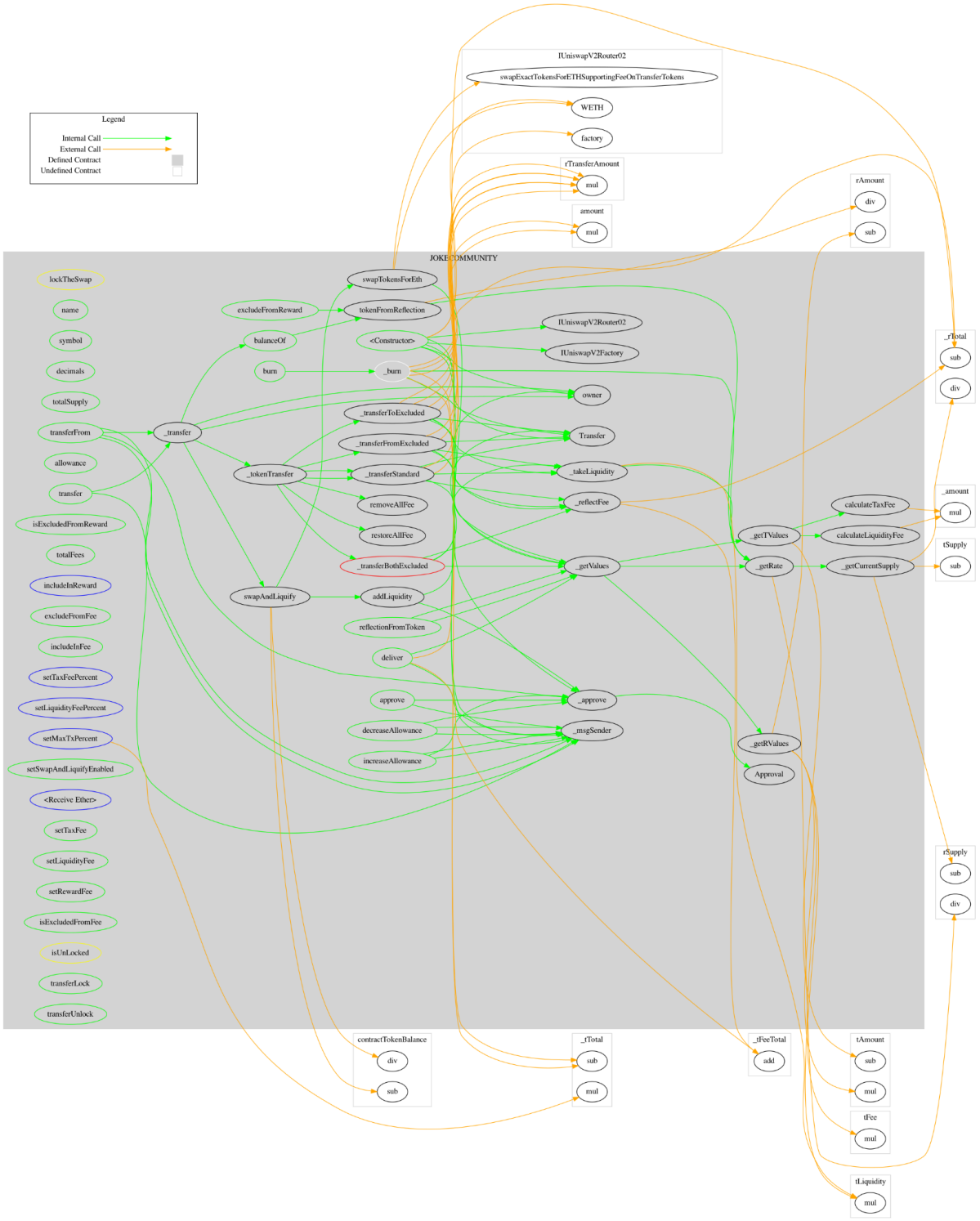
IUniswapV2Router02	Interface	IUniswapV2Router01		
	removeLiquidityETHSupportingFeeOnTransferTokens	External	✓	-
	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupportingFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingFeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
JOKECOMMUNITY	Implementation	Context, IERC20, Ownable		
		Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	isUnLocked

	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	isExcludedFromReward	Public		-
	totalFees	Public		-
	deliver	Public	✓	-
	reflectionFromToken	Public		-
	tokenFromReflection	Public		-
	excludeFromReward	Public	✓	onlyOwner
	includeInReward	External	✓	onlyOwner
	_transferBothExcluded	Private	✓	
	excludeFromFee	Public	✓	onlyOwner
	includeInFee	Public	✓	onlyOwner
	setTaxFeePercent	External	✓	onlyOwner
	setLiquidityFeePercent	External	✓	onlyOwner

	setMaxTxPercent	External	✓	onlyOwner
	setSwapAndLiquifyEnabled	Public	✓	onlyOwner
		External	Payable	-
	_reflectFee	Private	✓	
	_getValues	Private		
	_getTValues	Private		
	_getRValues	Private		
	_getRate	Private		
	_getCurrentSupply	Private		
	_takeLiquidity	Private	✓	
	calculateTaxFee	Private		
	calculateLiquidityFee	Private		
	setTaxFee	Public	✓	onlyOwner
	setLiquidityFee	Public	✓	onlyOwner
	setRewardFee	Public	✓	onlyOwner
	removeAllFee	Private	✓	
	restoreAllFee	Private	✓	

	isExcludedFromFee	Public		-
	_approve	Private	✓	
	_transfer	Private	✓	
	swapAndLiquify	Private	✓	lockTheSwap
	swapTokensForEth	Private	✓	
	addLiquidity	Private	✓	
	_tokenTransfer	Private	✓	
	_transferStandard	Private	✓	
	_transferToExcluded	Private	✓	
	_transferFromExcluded	Private	✓	
	_burn	Internal	✓	
	burn	Public	✓	onlyOwner
	transferLock	Public	✓	onlyOwner
	transferUnlock	Public	✓	onlyOwner

Contract Flow



Domain Info

Domain Name	joke.community
Registry Domain ID	1048b0babb1042baa72c537b2aa4aca9-DONUTS
Registrar WHOIS Server	whois.joker.com
Registrar URL	http://joker.com
Updated Date	2021-06-12T11:52:43Z
Creation Date	2021-06-07T11:52:30Z
Registry Expiry Date	2023-06-07T11:52:30Z
Registrar	CSL Computer Service Langenbach GmbH d/b/a Joker.com
Registrar IANA ID	113

The domain was created six months before the creation of the audit. It will expire in about two years.

There is no public billing information, the creator is protected by the privacy settings.

Summary

Joke is aiming to help comedians mint their jokes onto the blockchain as NFT's as well as run Virtual Comedy Clubs in the Metaverse. The contract analysis reported 3 critical issues. There are some functions that can be abused by the owner, like manipulating fees without limitations, stopping transactions and reducing the max amount of tokens a wallet can have without restrictions. A multi-wallet signing pattern or renouncing the ownership will eliminate all the contract threats. We verified that Simon Young is the founder of JOKE. Real names and people are raising the confidence and trust of the community.

Update 12th of December 2021

Joke reviewed our comments and has renounced the ownership of the contract. Hence, the functions cannot be abused by anyone.

Disclaimer

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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.

Coinscope is aiming to make crypto discoverable and efficient globally. It provides all the essential tools to assist users draw their own conclusions.



The Coinscope.co team

https://www.coinscope.co