

Audit Report PIZZA INU

June 2022

SHA256

3ba62daaf4e96550bbacded866c045ae91582e572961f1acb2409e932f7c1fde

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Contract Review

Contract Name	PINUToken
Compiler Version	v0.8.0+commit.c7dfd78e
Optimization	200 runs
Licence	
Symbol	PINU
Decimals	18
Total Supply	100,000,000,000
Domain	pizzainu.io

Source Files

Filename	SHA256
contract.sol	3ba62daaf4e96550bbacded866c045ae91582e572961f 1acb2409e932f7c1fde

Audit Updates

Initial Audit	4th June 2022
Corrected	7th June 2022

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#L1178

Description

The contract owner has the authority to stop transactions for all users excluding the owner. The contract owner can also convert the contract into a honeypot and prevent users from selling by increasing the selling taxes (sellRewardFeeRate, sellMarketingFeeRate).

Recommendation

The contract could embody a check for not allowing setting the sellRewardFeeRate and sellMarketingFeeRate more than a reasonable amount.

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#L1264, 1268, 1272, 1276

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 setBuyRewardFeeRate, setSellRewardFeeRate, setBuyMarketingFeeRate and setBuyMarketingFeeRate functions with a high percentage value.

```
function setBuyRewardFeeRate(uint256 _fee) external onlyOwner {
   buyRewardFeeRate = _fee;
}
```

```
function setSellRewardFeeRate(uint256 _fee) external onlyOwner {
    sellRewardFeeRate = _fee;
}
```

```
function setBuyMarketingFeeRate(uint256 _fee) external onlyOwner {
   buyMarketingFeeRate = _fee;
}
```

```
function setSellMarketingFeeRate(uint256 _fee) external onlyOwner {
    sellMarketingFeeRate = _fee;
}
```



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.



ULTW - Unlimited Liquidity to Team Wallet

Criticality	minor
Location	contract.sol#L1196, 1200

Description

The contract owner has the authority to transfer funds without limit to the team wallet. These funds have been accumulated from fees collected from the contract. The owner may take advantage of it by calling the withdrawToken and withdrawBNB functions.

```
function withdrawToken(address token) public onlyOwner {
    IERC20(token).transfer(msg.sender, IERC20(token).balanceOf(address(this)));
}
```

```
function withdrawBNB() public onlyOwner {
   payable(msg.sender).transfer(address(this).balance);
}
```

Recommendation

The contract could embody a check for the maximum amount of funds that can be swapped. Since a huge amount may volatile the token's price.

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
•	CO	Code Optimization
•	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
•	L14	Uninitialized Variables in Local Scope



CO - Code Optimization

Criticality	minor
Location	contract.sol#L1120, 1260

Description

There are code segments that could be optimized. A segment may be optimized so that it becomes a smaller size, consumes less memory, executes more rapidly, or performs fewer operations. The antiBotEnabled variable is used only in the code segments below.

```
bool public antiBotEnabled;
```

```
function setEnableAntiBot(bool _enable) external onlyOwner {
   antiBotEnabled = _enable;
}
```

Recommendation

Rewrite some code segments so the runtime will be more performant. Try to remove the code segments.



L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L304,312,736,744,761,793,823,846,877,904,1087,1102,1496,1500,1 534,1543,1593,1611,1619,1656,1660

Description

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

```
setMinHolder
setClaimable
getRewardedByAddressAndToken
getRewardByAddressAndToken
viewTransferFee
depositReward
claim
withdrawBNB
withdrawToken
...
```

Recommendation

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

L02 - State Variables could be Declared Constant

Criticality	minor
Location	contract.sol#L1389

Description

Constant state variables should be declared constant to save gas.

maxSupply

Recommendation

Add the constant attribute to state variables that never change.



L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L1166,1534,1573,1577,1581,1585,1589,1626,1630,1639,1652,1656, 1660

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.

```
_minHolder
_isClaimable
_rewardToken
_marketingAddress
_exclude
_addresses
_isLp
_lpAddress
_fee
```

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#L1577,1581,1585,1589,1660

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.

```
minHolder = _minHolder
sellMarketingFeeRate = _fee
buyMarketingFeeRate = _fee
sellRewardFeeRate = _fee
buyRewardFeeRate = _fee
```

Recommendation

Emit an event for critical parameter changes.



L09 - Dead Code Elimination

Criticality	minor
Location	contract.sol#L405,418,437,457,511,529,479,494,349,377,546,1141,1563

Description

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

```
_mint
verifyCallResult
sendValue
isContract
functionStaticCall
functionDelegateCall
functionCallWithValue
functionCall
...
```

Recommendation

Remove unused functions.



L14 - Uninitialized Variables in Local Scope

Criticality	minor
Location	contract.sol#L1665,1545

Description

The are variables that are defined in the local scope and are not initialized.

i

Recommendation

All the local scoped variables should be initialized.

Contract Functions

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
SafeMath	Library			
	tryAdd	Internal		
	trySub	Internal		
	tryMul	Internal		
	tryDiv	Internal		
	tryMod	Internal		
	add	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	mod	Internal		
	sub	Internal		
	div	Internal		
	mod	Internal		
Ownable	Implementation	Context		
	<constructor></constructor>	Public	√	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_setOwner	Private	1	
Address	Library			
	isContract	Internal		
	sendValue	Internal	✓	



	functionCall	Internal	✓	
	functionCall	Internal	✓	
	functionCallWithValue	Internal	✓	
	functionCallWithValue	Internal	✓	
	functionStaticCall	Internal		
	functionStaticCall	Internal		
	functionDelegateCall	Internal	✓	
	functionDelegateCall	Internal	✓	
	verifyCallResult	Internal		
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	1	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
IERC20Metada ta	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-
ERC20	Implementation	Context, IERC20, IERC20Meta data		
	<constructor></constructor>	Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-



	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	_transfer	Internal	✓	
	_mint	Internal	1	
	_burn	Internal	1	
	_approve	Internal	✓	
	_beforeTokenTransfer	Internal	✓	
	_afterTokenTransfer	Internal	✓	
ERC20Burnabl	Implementation	Context, ERC20		
	burn	Public	✓	-
	burnFrom	Public	✓	-
ERC20Capped	Implementation	ERC20		
	<constructor></constructor>	Public	✓	-
	сар	Public		-
	_mint	Internal	✓	
IPinkAntiBot	Interface			
	setTokenOwner	External	✓	-
	onPreTransferCheck	External	✓	-
IUniswapV2Fa ctory	Interface			
	createPair	External	1	-
IPancakeSwap Router	Interface			
	factory	External		-
	WETH	External		-
	addLiquidity	External	✓	-
	addLiquidityETH	External	Payable	-
	removeLiquidity	External	1	-
	' '			



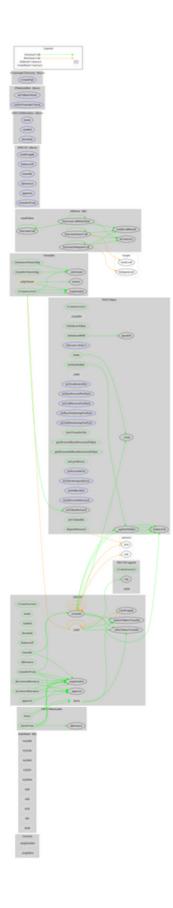
	removeLiquidityWithPermit	External	✓	-
	removeLiquidityETHWithPermit	External	1	-
	swapExactTokensForTokens	External	1	-
	swapTokensForExactTokens	External	1	-
	swapExactETHForTokens	External	Payable	-
	swapTokensForExactETH	External	1	-
	swapExactTokensForETH	External	1	-
	swapETHForExactTokens	External	Payable	-
	quote	External		-
	getAmountOut	External		-
	getAmountIn	External		-
	getAmountsOut	External		-
	getAmountsIn	External		-
	removeLiquidityETHSupportingFeeOn TransferTokens	External	✓	-
	removeLiquidityETHWithPermitSuppor tingFeeOnTransferTokens	External	√	-
	swapExactTokensForTokensSupportin gFeeOnTransferTokens	External	√	-
	swapExactETHForTokensSupportingF eeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingF eeOnTransferTokens	External	✓	-
PINUToken	Implementation	ERC20Capp ed, ERC20Burn able, Ownable		
	<constructor></constructor>	Public	1	Ownable ERC20Capped ERC20
	_transfer	Internal	✓	
	swapTokensForEth	Private	✓	
	withdrawToken	Public	✓	onlyOwner
	withdrawBNB	Public	✓	onlyOwner
	<receive ether=""></receive>	External	Payable	-
	_updateHolder	Internal	√	
	claim	Public	1	-



depositReward	Public	✓	onlyOwner
_claim	Internal	✓	
_mint	Internal	1	
setEnableAntiBot	External	✓	onlyOwner
setBuyRewardFeeRate	External	1	onlyOwner
setSellRewardFeeRate	External	✓	onlyOwner
setBuyMarketingFeeRate	External	1	onlyOwner
setSellMarketingFeeRate	External	✓	onlyOwner
viewTransferFee	Public		-
getRewardByAddressAndToken	Public		-
getRewardedByAddressAndToken	Public		-
setLpAddress	Public	✓	onlyOwner
setExcludeFee	External	1	onlyOwner
setMarketingAddress	External	✓	onlyOwner
multiExcludeReward	External	✓	onlyOwner
setTokenReward	Public	✓	onlyOwner
setClaimable	Public	✓	onlyOwner
setMinHolder	Public	1	onlyOwner



Contract Flow





Domain Info

Domain Name	pizzainu.io
Registry Domain ID	019cf49e792045feb849ee23ee7e9700-DONUTS
Creation Date	2022-05-25T18:05:10Z
Updated Date	2022-05-30T23:27:24Z
Registry Expiry Date	2024-05-25T18:05:10Z
Registrar WHOIS Server	whois.godaddy.com/
Registrar URL	http://www.godaddy.com/domains/search.aspx?ci=89 90
Registrar	GoDaddy.com, LLC
Registrar IANA ID	146

The domain has been created 15 days before the creation of the audit. It will expire in almost 2 years.

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, manipulating fees and transferring funds to the team's wallet. 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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Coinscope audit and K.Y.C. service has been rebranded to Cyberscope.

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The Cyberscope team

https://www.cyberscope.io