Cyberscope

Audit Report

Kaisen Inu

April 2022

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Contract Review

Contract Name	KaisenInu
Compiler Version	v0.8.4+commit.c7e474f2
Optimization	200 runs
Licence	None
Explorer	https://bscscan.com/token/0xE3021505D15Dce585709b2Be70a722BfcdB4D768
Symbol	KAI
Decimals	9
Total Supply	1,000,000,000
Domain	kaiseninu.com

Source Files

Filename	SHA256
contract.sol	3855bbbe328ff22069b6b64b676de0a065d66effff189399c7907b2dba139590

Audit Updates

Initial Audit	25th April 2022
Corrected	

Contract Analysis

● Critical   ● Medium   ● Minor   ● Pass

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
●	BT	Contract Owner is not able to burn tokens from specific wallet
●	BC	Contract Owner is not able to blacklist wallets from selling

Contract Diagnostics

● Critical   ● Medium   ● Minor

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
●	L05	Unused State Variable

CO - Code Optimization

Criticality	minor
Location	contract.sol#L1

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 _taxFee is always zero, thus the entire calculation could be eliminated from the smart contract.

```solidity
_taxFee = 0;
_liquidityFee = 0;

if (from != owner() && to != owner()) {

    uint256 contractTokenBalance = balanceOf(address(this));
    if (!inSwap && from != uniswapV2Pair && feeSwap && contractTokenBalance > 0)
{
        swapTokensForEth(contractTokenBalance);
        uint256 contractETHBalance = address(this).balance;
        if(contractETHBalance > 0) {
            sendETHToFee(address(this).balance);
        }
    }

    if(from == uniswapV2Pair && to != address(uniswapV2Router)) {
        _liquidityFee = 3;
    }

    if (to == uniswapV2Pair && from != address(uniswapV2Router)) {
        _liquidityFee = 3;
    }

    if ((_isExcludedFromFee[from] || _isExcludedFromFee[to]) || (from !=
uniswapV2Pair && to != uniswapV2Pair)) {
        _taxFee = 0;
        _liquidityFee = 0;
    }
```

```
}
```

Recommendation

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

L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L110,116,181,185,189,193,201,206,210,215,351,355

Description

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

```
excludeFromFees
toggleSwap
transferFrom
approve
allowance
transfer
totalSupply
decimals
symbol
...
```

Recommendation

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

L02 - State Variables could be Declared Constant

Criticality	minor
Location	contract.sol#L146,145,143,144,93

Description

Constant state variables should be declared constant to save gas.

```
_previousOwner
_marketingAddress
_devAddress
_charityWallet
_autoLiquidityReceiver
```

Recommendation

Add the constant attribute to state variables that never change.

L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L34,351,132,139,140,141

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.

```
_decimals
_symbol
_name
_tTotal
_feeSwap
WETH
```

Recommendation

Follow the Solidity naming convention.
https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-conventions

L05 - Unused State Variable

Criticality	minor
Location	contract.sol#L93,127

Description

There are segments that contain unused state variables.

```
_tOwned
_previousOwner
```

Recommendation

Remove unused state variables.

Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
Token	Interface			
	transferFrom	External	✓	-
	transfer	External	✓	-
IUniswapV2Factory	Interface			
	createPair	External	✓	-
IUniswapV2Router02	Interface			
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
	factory	External		-
	WETH	External		-
	addLiquidityETH	External	Payable	-
Context	Implementation			
	_msgSender	Internal		
SafeMath	Library			
	add	Internal		
	sub	Internal		

	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
Ownable	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
KaisenInu	Implementation	Context, IERC20, Ownable		
	<Constructor>	Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-
	tokenFromReflection	Private		
	_approve	Private	✓	
	_transfer	Private	✓	
	swapTokensForEth	Private	✓	lockTheSwap
	sendETHToFee	Private	✓	
	_tokenTransfer	Private	✓	
	_transferStandard	Private	✓	
	_takeTeam	Private	✓	
	_reflectFee	Private	✓	
	<Receive Ether>	External	Payable	-
	_getValues	Private		
	_getTValues	Private		

	_getRValues	Private		
	_getRate	Private		
	_getCurrentSupply	Private		
	toggleSwap	Public	✓	onlyDev
	excludeFromFees	Public	✓	onlyDev

Contract Flow
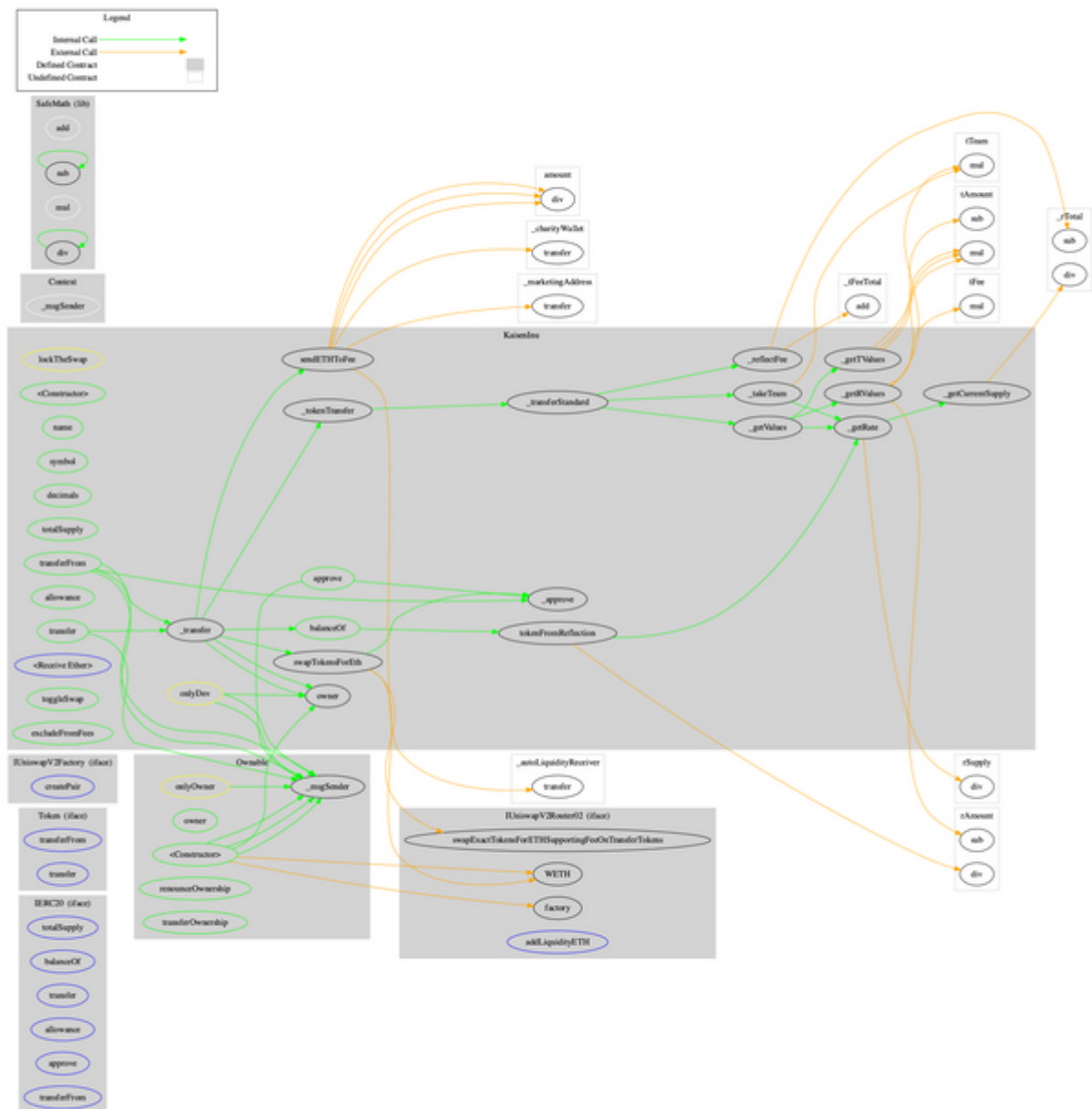
Domain Info

Domain Name	kaiseninu.com
Registry Domain ID	2691119795_DOMAIN_COM-VRSN
Creation Date	2022-04-22T16:32:22Z
Updated Date	2022-04-22T20:51:12Z
Registry Expiry Date	2023-04-22T16:32:22Z
Registrar WHOIS Server	whois.publicdomainregistry.com
Registrar URL	www.publicdomainregistry.com
Registrar	PDR Ltd. d/b/a PublicDomainRegistry.com
Registrar IANA ID	303

The domain has been created 3 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

Kaisen Inu is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler error or critical issues. The contract Owner can access some admin functions that can not be used in a malicious way to disturb the users' transactions. The fees are fixed to 3%.

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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