

Smart Contract Audit

FOR

Kong Inu

DATED: 17 APRIL 23'



AUDIT SUMMARY

Project name - Kong Inu

Date: 17 April, 2023

Scope of Audit- Audit Ace was consulted to conduct the smart contract audit of the solidity source codes.

Audit Status: Passed

Issues Found

Status	Critical	High	Medium	Low	Suggestion
Open	0	2	0	0	0
Acknowledged	0	0	0	0	0
Resolved	0	0	0	0	0



USED TOOLS

Tools:

1- Manual Review:

a line by line code review has been performed by audit ace team.

2- BSC Testnet network:

All tests were conducted on the BSC Test network, and each test has a corresponding transaction attached to it. These tests can be found in the "Functional Tests" section of the report.

3- Slither: The code has undergone static analysis using Slither.

Testnet Link: Contract has been tested on binance smart chain testnet which can be found in below link:

https://testnet.bscscan.com/address/0x3E52AEb78 7C10f9b275E2B361fEEe79b6bF5DceF#code



Token Information

Token Name: Kong Inu

Token Symbol: KONG

Decimals: 9

Token Supply: 210,000,000,000,000,000

Token Address:

0xAC1Cd89092e04c87f13D6f80fb9A9a506468678e

Checksum:

7b0d6058387825c26af841b8913f24278a52984c

Owner:

OxC344EA9B5ada0E9489626b5Da271d5f6E8103B7f (at time of audit)



TOKEN OVERVIEW

Fees:

Buy Fees: 10%

Sell Fees: 10%

Transfer Fees: 10%

Fees Privilege: None

Ownership: Owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: Yes

Other Privileges: updating liquidity threshold - excluding from fees - including in fees - including in rewards - excluding from rewards



AUDIT METHODOLOGY

The auditing process will follow a routine as special considerations by Auditace:

- Review of the specifications, sources, and instructions provided to Auditace to make sure the contract logic meets the intentions of the client without exposing the user's funds to risk.
- Manual review of the entire codebase by our experts, which is the process of reading source code line-byline in an attempt to identify potential vulnerabilities.
- Specification comparison is the process of checking whether the code does what the specifications, sources, and instructions provided to Auditace describe.
- Test coverage analysis determines whether the test cases are covering the code and how much code isexercised when we run the test cases.
- Symbolic execution is analysing a program to determine what inputs cause each part of a program to execute.
- Reviewing the codebase to improve maintainability, security, and control based on the established industry and academic practices.



VULNERABILITY CHECKLIST





CLASSIFICATION OF RISK

Severity

- Critical
- High-Risk
- Medium-Risk
- Low-Risk
- Gas Optimization/Suggestion

Description

These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.

A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.

A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.

A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.

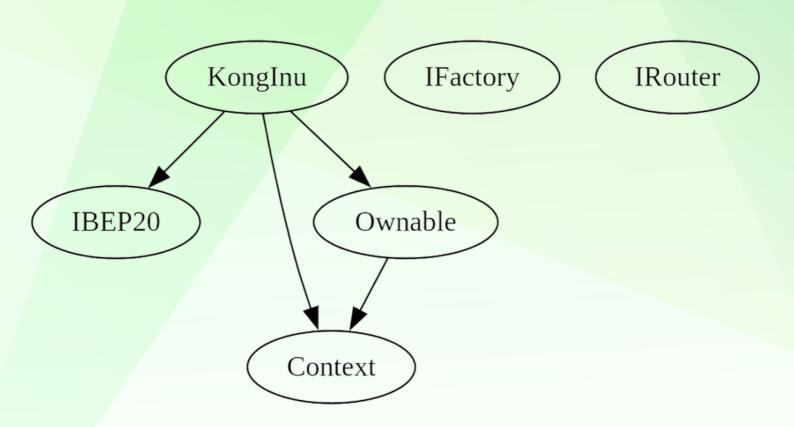
A vulnerability that has an informational character but is not affecting any of the code.

Findings

Severity	Found
◆ Critical	0
♦ High-Risk	2
◆ Medium-Risk	0
♦ Low-Risk	0
Gas Optimization /Suggestions	0



INHERITANCE TREE





POINTS TO NOTE

- Owner is not able to modify buy/sell/transfer fees (10% each)
- Owner must enable trading for investors to be able to trade
- Owner is not able to set max buy/sell/transfer/hold amount
- · Owner is not able to blacklist an arbitrary wallet
- Owner is not able to disable trades
- Owner is not able to mint new tokens



CONTRACT ASSESMENT

```
| Contract |
               Type
                            Bases
   | **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
**IBEP20** | Interface | |||
L totalSupply External | NO | |
 | balanceOf | External | | NO | |
 L | transfer | External | | NO | |
 L | allowance | External | | NO | |
| L | approve | External | | | NO | |
L | transferFrom | External | | | NO | |
| **Context** | Implementation | |||
| L | msgSender | Internal 🔒 | | |
 L | msgData | Internal 🔒 | | |
| **Ownable** | Implementation | Context |||
 L | <Constructor> | Public | | | NO | |
 L | owner | Public | | NO | |
L | transferOwnership | Public | | onlyOwner |
 L | setOwner | Private 🔐 | 🛑 | |
| **IFactory** | Interface | ||| | | |
| L | createPair | External | | | NO | |
| **IRouter** | Interface | |||
| L | factory | External | | NO | |
| L | WETH | External | | NO | |
| L | addLiquidityETH | External | | 1 NO | |
| L | swapExactTokensForETHSupportingFeeOnTransferTokens | External | | | | NO | |
| **Address** | Library | |||
| L | sendValue | Internal 🔒 | 🛑 | |
| **KongInu** | Implementation | Context, IBEP20, Ownable |||
| L | <Constructor> | Public | | | NO | |
L | name | Public | | NO | |
L | symbol | Public | | NO | |
 L | decimals | Public | | NO | |
 L | totalSupply | Public | | NO | |
 L | balanceOf | Public | | NO | |
 L | allowance | Public | | NO | |
| L | approve | Public | | | NO | |
```



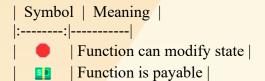
CONTRACT ASSESMENT

```
L | transferFrom | Public | NO | |
| increaseAllowance | Public | | | NO | |
L | transfer | Public | | | NO | |
| isExcludedFromReward | Public | | NO | |
reflectionFromToken | Public | NO | |
L | EnableTrading | External | | OnlyOwner |
| updatedeadline | External | | | onlyOwner |
L | tokenFromReflection | Public | | NO | |
L | excludeFromReward | Public | | | onlyOwner |
L | isExcludedFromFee | Public | | NO | |
L | reflectRfi | Private 🔐 | 🛑 | |
└ | takeLiquidity | Private 🔐 | 🛑 | |
└ | takeMarketing | Private 🔐 | ● ||
└ | takeOps | Private 🔐 | 🛑 | |
└ | takeDev | Private 🔐 | 🛑 | |
L | getValues | Private 🔐 | ||
L | getRValues1 | Private 🔐 | | |
L | getRValues2 | Private 🔐 | | |
L | getRate | Private 🔐 | | |
L | approve | Private | | | | | |
L | transfer | Private 🔐 | 🛑 | |
└ | tokenTransfer | Private 🔐 | ● ||
└ | swapAndLiquify | Private 🔐 | ● | lockTheSwap |
L | addLiquidity | Private 🔐 | 🛑 | |
└ | swapTokensForBNB | Private 🔐 | ● | |
| updateMarketingWallet | External | | | onlyOwner |
| updateDevWallet | External | | | onlyOwner |
| updateOpsWallet | External | | | onlyOwner |
L | updateSwapTokensAtAmount | External | | | onlyOwner |
L | updateSwapEnabled | External | | | onlyOwner |
L | rescueBNB | External | | | onlyOwner |
L | rescueAnyBEP20Tokens | Public | | • | onlyOwner |
```



CONTRACT ASSESMENT

Legend





Token Distribution

It should be noted that the owner currently holds 100% of the total supply. However, information about the distribution of these tokens is not available, and it is recommended that investors exercise caution when considering this aspect.



STATIC ANALYSIS

Result => A static analysis of contract's source code has been performed using slither,

No issues found



FUNCTIONAL TESTING

Router (PCS V2):

0xD99D1c33F9fC3444f8101754aBC46c52416550D1

1- Adding liquidity (passed):

https://testnet.bscscan.com/tx/0xe796ffa88e06cfb489e5438c2cdd63a5849f37fac3df5af6dab906af5adee7be

2- Buying when excluded (0% tax) (passed):

https://testnet.bscscan.com/tx/0xa57f2e06f169dbc968282d4a0c 4cff963f80d4d7b8e4129fbc283030c238f85a

3- Selling when excluded (0% tax) (passed):

https://testnet.bscscan.com/tx/0x530562a01d4302bee0c3d63baac9a8d2c1471260f3f21affb5d897328ea34501

4- Transferring when excluded from fees(0% tax) (passed):

https://testnet.bscscan.com/tx/0x8efbe2b7093e23aebe65070c88 185f3158f6f62f2488bb01159ecd280e6d17a6

5- Buying when not excluded from fees (10% tax) (passed):

https://testnet.bscscan.com/tx/0xb6c23ff15b98fc49951a7a60cf5e0ce08529a0dd7de6d3026e82bb1b9a491e00

6- Selling when not excluded from fees (10% tax) (passed):

https://testnet.bscscan.com/tx/0x33b1bdd799b37188210cf453b3 0edc1428bb79d7e8b0bac1ec10b97baf492f7d



FUNCTIONAL TESTING

7- Transferring when not excluded from fees (10% tax) (passed): https://testnet.bscscan.com/tx/0x07fa8f110f42be3a4a8566a2808 4962a03aef12145238a49737a99ef4c831b8d

8- Internal swap (passed):

All fee wallets received BNB

https://testnet.bscscan.com/address/0xe0a8b9318c60dcd3a533c462a25ae2ab453fc302#internaltx



MANUAL TESTING

Centralization - Owner must enable trading

Severity: High

Function: EnableTrading

Lines: 372

Status: Not Resolved

Overview:

The owner must activate trading for investors to buy, sell, or transfer tokens. If trading remains disabled, token holders will be unable to trade their tokens.

```
function EnableTrading() external onlyOwner {
  require(!tradingEnabled, "Cannot re-enable trading");
  tradingEnabled = true;
  swapEnabled = true;
  genesis_block = block.number;
}
```

Recommendation:

to address this issue there are multiple options

- transfer ownership of contract to a trusted 3rd wallet (pinksale safu developer) to guarante enabling of trades
- Incorporate a safety mechanism that allows investors to activate trading if a specified duration has elapsed since the conclusion of the presale or consider alternative ways such as allowing trades ater investors claimed their presale tokens.



MANUAL TESTING

Logical - Setting swap threshold to 0

Severity: High

Function: updateSwapTokensAtAmount

Lines: 787

Status: Not Resolved

Overview:

setting swap threshold to 0 can disable sells if contract balance is more than threshold.

```
function updateSwapTokensAtAmount(uint256 amount) external onlyOwner {
    require(
        amount <= 42e14,
        "Cannot set swap threshold amount higher than 1% of tokens"
    );
    swapTokensAtAmount = amount * 10 ** _decimals;
}</pre>
```

Recommendation:

ensure that swap threshold can not be zero.

Example:

```
function updateSwapTokensAtAmount(uint256 amount) external onlyOwner {
    require(
        amount <= 42e14,
        "Cannot set swap threshold amount higher than 1% of tokens"
    );
    require(
        amount > 0,

"Cannot set swap threshold amount to 0"
    );
    swapTokensAtAmount = amount * 10 ** _decimals;
}
```



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