

Smart Contract Audit

FOR

Laika Inu

DATED: 18 Apr 23'



AUDIT SUMMARY

Project name - Laika Inu

Date: 18 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	0	1	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 Test Network:

all tests were done on BSC Test network, each test has its transaction has attached to it.

3- Slither: Static Analysis

Testnet Link: all tests were done using this contract, tests are done on BSC Testnet

https://testnet.bscscan.com/address/0x917B821430 55c1a4dFaD59184d67A015DfC94Fd7



Token Information

Token Name: Laika Inu

Token Symbol: LKI

Decimals: 9

Token Supply: 420,000,000,000,000,000

Token Address:

0x2921E2CEf9a1EF9024aD64326F89e6FdD786Ae40

Checksum:

3847c2879d783db21e83b6658dd6191d4649441e

Owner:

0xD315d294238D9e5164d9336C80541E883F1058aC (at time of audit)

Deployer:

0xD315d294238D9e5164d9336C80541E883F1058aC



TOKEN OVERVIEW

Fees:

Buy Fees: 10%

Sell Fees: 10%

Transfer Fees: 10%

Fees Privilige: None

Ownership: Owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Priviliges: excluding from fees - including in fees

- changing swap threshold



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.

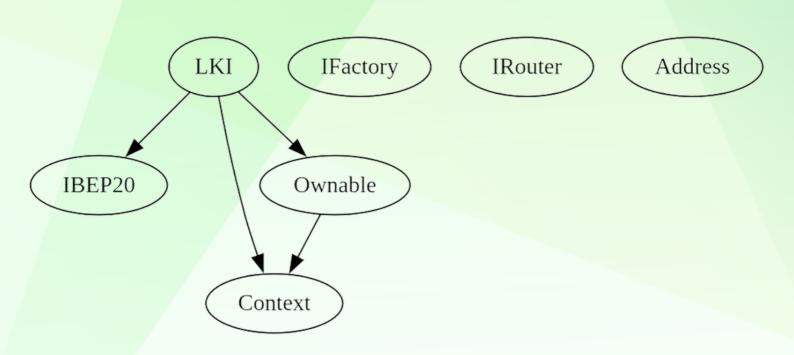
A vulnerability that has an informational character but is not affecting any of the code.

Findings

Severity	Found
◆ Critical	0
♦ High-Risk	0
◆ Medium-Risk	1
♦ Low-Risk	0
Gas Optimization /Suggestions	0



INHERITANCE TREE





POINTS TO NOTE

- Owner is not able to modify fees (10% buy/sell/transfers)
- 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
|<del>:-----:|:-----:|:-----:|:-----:|</del>
       **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
111111
| **IBEP20** | Interface | ||| | |
| L | totalSupply | External | | NO | |
| L | balanceOf | External | | NO | |
| L | transfer | External | | | NO | |
| | allowance | External | | NO | |
| L | approve | External | | | NO | |
| L | transferFrom | External | | | NO | |
ШШ
**Context** | Implementation | |||
| L | msgSender | Internal 🦰 | | | | |
| L | msgData | Internal 🦰 | | |
| **Ownable** | Implementation | Context | | |
| L | <Constructor> | Public | | ( NO | |
| L | owner | Public | | NO |
| L | renounceOwnership | Public | | | onlyOwner |
| L | transferOwnership | Public | | ( ) | onlyOwner |
| L | _setOwner | Private 🦳 | 🛑 | |
| **IFactory** | Interface | |||
| L | createPair | External | | | NO | |
111111
| **IRouter** | Interface | ||| | | |
| L | factory | External | | NO | |
| L | WETH | External | | NO | |
| L | addLiquidityETH | External | | III | INO | |
| L | swapExactTokensForETHSupportingFeeOnTransferTokens | External | | | | NO | |
111111
| **Address** | Library | | | |
| L | sendValue | Internal 🦰 | 🛑 | |
IIIIIII
| **LKI** | 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 | |
```



CONTRACT ASSESMENT

```
| L | allowance | Public | | NO | | |
| L | approve | Public | | 🛑 | NO | |
| L | transferFrom | Public | | ( NO | |
| L | increaseAllowance | Public | | 🛑 | NO | |
| L | decreaseAllowance | Public | | ( NO | |
| L | transfer | Public | | ( NO | |
| L | isExcludedFromReward | Public | | NO | |
| L | tokenFromReflection | Public | | NO | |
| L | excludeFromReward | Public | | ( ) | onlyOwner |
📙 | includeInReward | External 📗 | 🛑 | onlyOwner |
📙 | excludeFromFee | Public 📗 | 🛑 | onlyOwner |
| L | includeInFee | Public | | 🛑 | onlyOwner | |
| L | isExcludedFromFee | Public | | NO | |
| L | _reflectRfi | Private 🛅 | 🛑 | |
| L | takeMarketing | Private 🦰 | 🛑 | |
| L | _getValues | Private 🛅 | | |
| L | getTValues | Private 🦳 | | |
| L | _getRValues | Private 🦳 | | |
| L | _getRate | Private 🦳 | | |
| L | _getCurrentSupply | Private P | | |
| | | _approve | Private 🖺 | 🛑 | |
| L | _transfer | Private 🤔 | 🛑 | |
| L | tokenTransfer | Private 🦳 | 🛑 | |
| L | swapAndLiquify | Private 📍 | 🛑 | lockTheSwap |
| L | swapTokensForBNB | Private 🦳 | 🛑 | |
| L | updateMarketingWallet | External | | ( ) | onlyOwner |
| L | updateSwapTokensAtAmount | External | | | | onlyOwner |
| L | rescueBNB | External | | | | onlyOwner |
| L | rescueAnyBEP20Tokens | Public | | | onlyOwner |
| L | <Receive Ether> | External | | I NO | |
Legend
| Symbol | Meaning |
|:-----|
  | Function can modify state |
  Function is payable |
```



STATIC ANALYSIS

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

No major issues were found in the output



FUNCTIONAL TESTING

Router (PCS V2):

0xD99D1c33F9fC3444f8101754aBC46c52416550D1

All the functionalities have been tested, no issues were found

1- Adding liquidity (passed):

https://testnet.bscscan.com/tx/0xa9810837391d4f0326a1cb1537e 0fcaa2c4f5d674d288227fd33f08aab70cec2

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

https://testnet.bscscan.com/tx/0x8a2b7db38e4dda21269e6561cb 3e044b104e37d34bb62bd4f5b32262b61657ac

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

https://testnet.bscscan.com/tx/0xdb6e2c7001e083ef88f8f0c5450 1f1a47731d76e6d5a77b9bdf03ab9c4df7a89

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

https://testnet.bscscan.com/tx/0xfdcd5efb9458d8029fa2315bade 79573abcb535af449cb9b7c945516472c23be

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

https://testnet.bscscan.com/tx/0x25a1d85afa6651a7b1ffed3e65f75bc3bb53a5cb10e1862382df7cd8ee7557c5

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

https://testnet.bscscan.com/tx/0xb6b961d6abffa494316a9ee0c53 225f88e518191283c2d01f3e485b939e8d7a2



FUNCTIONAL TESTING

7- Transferring when not excluded (10% tax) (passed):

https://testnet.bscscan.com/tx/0xdd43f9140709850d4befe97b42 8560250cad90c8cbd7d11bbf211a4491c621d1

8- Internal swap (passed):

Marketing wallet received BNB

https://testnet.bscscan.com/address/0xc6775a043a41fb16c92f04 8471e424e3d05e5017#internaltx



MANUAL TESTING

Logical – Invalid condition for updating Swap threshold

Severity: Medium

Function: updateSwapTokensAtAmount

Lines: 529

Status: Not Resolved

Overview:

Current condition indicates that swap threshold must stay less than 1e15 which is 1/420 or 0.2% of supply, however revert error message shows that swap threshold can be set up to 1% of supply

```
function updateSwapTokensAtAmount(uint256 amount) external onlyOwner {
  require(amount <= 1e15, "Cannot set swap threshold amount higher than 1%
      swapTokensAtAmount = amount * 10**_decimals;
}</pre>
of tokens");
```

Recommendation:

change the code to match the condition



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