

Smart Contract Audit

FOR

Al Run&Burn

DATED: 21 Apr 23'



AUDIT SUMMARY

Project name - Al Run&Burn

Date: 21 April, 2023

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

Audit Status: Passed (Contract is developed by Pinksale safu dev)

Issues Found

Status	Critical	High	Medium	Low	Suggestion
Open	0	1	0	0	0
Acknowledged	0	0	0	0	0
Resolved	0	1	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/0xcaE0c8D00A 3329a186621ae4d572A4fa8272Ff8F#code



Token Information

Token Name: Al Run&Burn

Token Symbol: AI RBT

Decimals: 18

Token Supply: 21,000,000

Token Address:

0x604c61074BA6A03f6D12C9BC2BAB64ABDDB01603

Checksum:

8c8357b7f17d76315c11b1a672aadbaaebc09634

Owner:

0x10A80c57bafE4d07316D3DD5697Bf123ac689363

Deployer:

0x10A80c57bafE4d07316D3DD5697Bf123ac689363



TOKEN OVERVIEW

Fees:

Buy Fees: upto 5%

Sell Fees: upto 5%

Transfer Fees: upto 5%

Fees Privilige: Owner

Ownership: Owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: Yes

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.

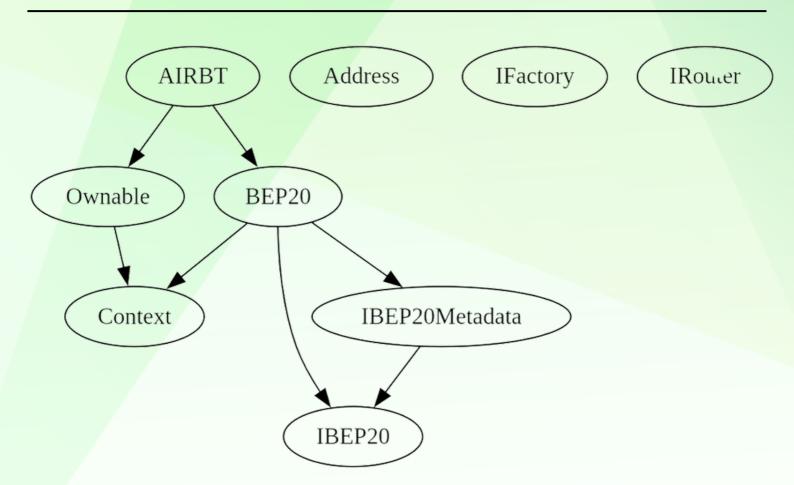
A vulnerability that has an informational character but is not affecting any of the code.

Findings

Severity	Found
♦ Critical	0
♦ High-Risk	1 (RESOLVED)
♦ Medium-Risk	0
♦ Low-Risk	0
Gas Optimization /Suggestions	0



INHERITANCE TREE





POINTS TO NOTE

- Owner is not able to set buy/sell/transfer more than 5%
- Owner must enable trading for investors to be able to trade
- Owner is not able to disable trades
- Owner is not able to blacklist an arbitrary wallet
- Owner is not able to mint new tokens



CONTRACT ASSESMENT

```
| Contract |
                 Type
                               Bases
|<del>:-----:|:-----:|:-----:|:-----:|</del>
        | **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
111111
**Context** | Implementation | |||
| L | _msgSender | Internal 🖰 | | | |
| | msgData | Internal 🦰 | | |
\Pi\Pi\Pi\Pi\Pi
| **IBEP20** | Interface | | | | |
| L | totalSupply | External | | NO | |
| L | balanceOf | External | | NO | |
📙 | transfer | External 📗 | 🛑 | NO 📗
| L | allowance | External | | NO | | |
| L | approve | External | | | NO | |
| L | transferFrom | External | | | NO | |
IIIIIII
| **IBEP20Metadata** | Interface | IBEP20 | | | |
| L | name | External | | NO | |
| L | symbol | External | | NO | |
| L | decimals | External | | NO | |
\Pi\Pi\Pi\Pi\Pi
| **BEP20** | Implementation | Context, IBEP20, IBEP20Metadata | | | | | |
| 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 | transfer | Public | | | | NO | |
| L | allowance | Public | | NO | |
| L | approve | Public | | | | NO | |
| L | transferFrom | Public | | | NO | |
| L | increaseAllowance | Public | | | NO | |
| L | decreaseAllowance | Public | | | NO | |
| L | _transfer | Internal 🦰 | 🛑 | |
| L | tokengeneration | Internal 🦰 | 🛑 | |
| L | _approve | Internal 🦰 | 🛑 | |
| **Address** | Library | | | |
| L | sendValue | Internal 🦰 | 🛑 | |
| **Ownable** | Implementation | Context | | |
```



CONTRACT ASSESMENT

```
| L | <Constructor> | Public | | ( NO | |
| L | owner | Public | | NO | |
| L | renounceOwnership | Public | | 🛑 | onlyOwner |
| L | transferOwnership | Public | | | OnlyOwner |
| L | _setOwner | Private 🖳 | 📵 | |
\Pi\Pi\Pi\Pi\Pi
| **IFactory** | Interface | |||
| | createPair | External | | | NO | |
111111
| **IRouter** | Interface | | | | | |
| L | WETH | External | | | NO | |
| L | addLiquidityETH | External | | 🔟 | NO | |
| L | swapExactTokensForETHSupportingFeeOnTransferTokens | External | | | NO | |
| **AIRBT** | Implementation | BEP20, Ownable | | |
| L | <Constructor> | Public | | | | BEP20 |
| L | approve | Public | | ( NO | |
| L | transferFrom | Public | | | NO | |
| L | increaseAllowance | Public | | | NO | |
| L | decreaseAllowance | Public | | ( ) | NO | |
| L | transfer | Public | | | NO | |
| L | _transfer | Internal 🦰 | 🛑 | |
| Liquify | Private 📍 | 🛑 | lockTheSwap |
| L | swapTokensForETH | Private 🦳 | 🧓 | |
| L | addLiquidity | Private 🦰 | 🛑 | |
| L | updateLiquidityProvide | External | | | | onlyOwner |
| L | updateLiquidityTreshhold | External | | | | onlyOwner |
| L | SetBuyTaxes | External | | | | onlyOwner |
| L | SetSellTaxes | External | | | | onlyOwner |
| L | EnableTrading | External | | | | onlyOwner |
| L | updatedeadline | External | | | | onlyOwner |
| L | updateMarketingWallet | External | | | | onlyOwner |
| L | updateExemptFee | External | | | | onlyOwner |
| L | bulkExemptFee | External | | ( onlyOwner |
| L | rescueBNB | External | | | | onlyOwner |
| L | rescueBSC20 | External | | | | onlyOwner |
| L | <Receive Ether> | External | | I I INO | |
| Symbol | Meaning |
|:-----|
   | Function can modify state |
| I Function is payable |
```



STATIC ANALYSIS

```
Reentermay in ATRIX framsferfrom(address, address, dint250) (contracts/Token.sol#490)

External calls:
- _transfer(sender_recipient_amount) (contracts/Token.sol#490)
- _success): = recipient_call(value: amount)) (contracts/Token.sol#400)
- _success): = recipient_call(value: amount)) (contracts/Token.sol#401)
- _success): = recipient_call(value: amount)) (contracts/Token.sol#401)
- _success): = recipient_amount)
- _success): = recipient_amount)
- _success): = recipient_amount)
- _success = recipient_amount_amount_amount_amount_amount_amount_amount_amount_amount_amount_amount_amount_amount_amount_amount_amount_amou
```

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/0xc99eb6a4019fd62b371506ae7bdd8b471a2da46daadbc8d0cab5cbc2d54c93ce

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

https://testnet.bscscan.com/tx/0x5690908e8bebb99144d74fff9ade06ddc05dfe404db189bd0ca95c448c0375d2

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

https://testnet.bscscan.com/tx/0x8a1b70da37e22fb60382897937 9d83d131f1a9c907946073b05ff776ca38b08a

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

https://testnet.bscscan.com/tx/0xfab986681026e28a0e1861b96e2 5cf2c837408c63fede4459f5a99bfd6895b74

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

https://testnet.bscscan.com/tx/0x8a40013db4a47cec1297180c5b9 1a049de33e372e26d599f3cbb16845783b18b

6- Selling when not excluded (upto 5% tax) (passed):

https://testnet.bscscan.com/tx/0x01e239d688406aae7640561752 415301c05f5acda976310a0d3f6eb77a14bd06



FUNCTIONAL TESTING

7- Transferring when not excluded (upto 5% tax) (passed):

https://testnet.bscscan.com/tx/0xe1c46fc5c89ba12b778e1fa2ce715a8af5be51f1da10394b063d5c560a0fd4e6

8- Internal swap (passed):

Marketing wallet received ETH

https://testnet.bscscan.com/address/0x87a011ac9eb79bfd042643 a09fe20358b4b34cc7#internaltx



MANUAL TESTING

Centralization - Owner must enable trading

Severity: High

Function: EnableTrading

Lines: 710

Status: 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;
  providingLiquidity = true;
  genesis_block = block.number;
}
```

Since contract is owned by safu dev, enabling trades is guaranteed.



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