

Smart Contract Audit

FOR

Body Al

DATED: 19 MAR 23'



AUDIT SUMMARY

Project name - Body Al

Date: 19 March, 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	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 done on Bsc Testnet 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/token/0x79cEE3A8E16 3dbd1B6172EbC80b9d73d22473C8C



Token Information

Token Name: Body Al

Token Symbol: BAIT

Decimals: 18

Token Supply: 1,000,000,000

Token Address:

0x859aC2100b85868bf7387D27e339da502FD1Eabc

Checksum:

6f4fe1a9273198cf26370ff2b4f644bf19b72f7a

Owner:

0x5b6C5eaDf3BA926f928DE834Ccd6562F4a10d34c (at time of writing the audit)



TOKEN OVERVIEW

Fees:

Buy Fees: 3%

Sell Fees: 3%

Transfer Fees: 0%

Fees Privilige: none

Ownership: Owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Priviliges: none



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.

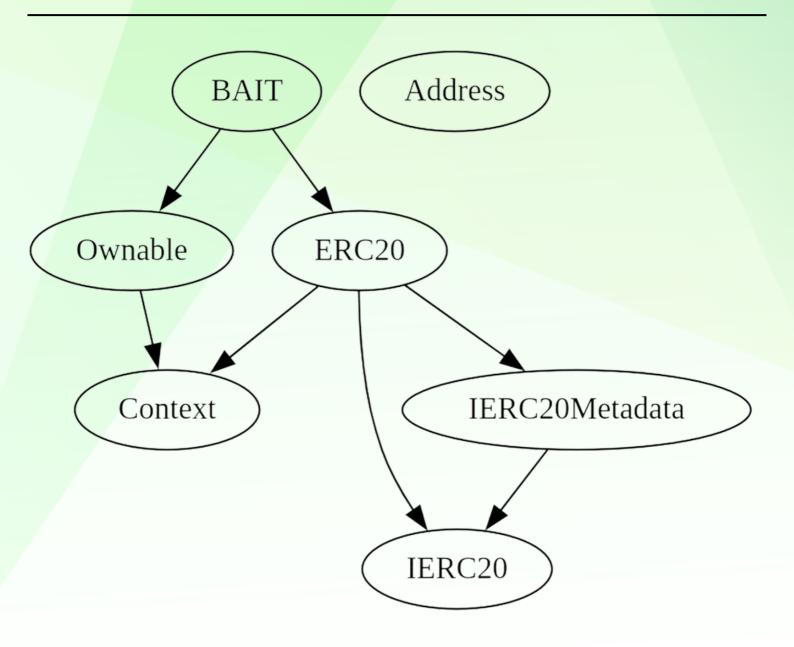
A vulnerability that has an informational character but is not affecting any of the code.

Findings

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



INHERITANCE TREE





POINTS TO NOTE

- Owner is not able to change buy/sell/transfer fees (3% buy, 3% sell, 0% transfer)
- 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
- Owner must enable trading in order for investors to be able to buy/sell/transfer
- Owner of the contract is safu dev, hence enabling trades is guaranteed



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.



```
| Contract |
                Type
                              Bases
<mark>|;-----:|;|;-----:|</mark>:|;-----:|
       **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
111111
**IUniswapV2Factory** | Interface | |||
| L | feeTo | External | | NO | |
| | | feeToSetter | External | | | NO
| | getPair | External | | NO | |
| | allPairs | External | | NO | |
| | allPairsLength | External | | NO | |
📙 createPair | External 📗 | 🛑 | NO 📗
📙 | setFeeTo | External 📗 | 🛑 | NO 📗
| L | setFeeToSetter | External | | ( NO | | |
| **IUniswapV2Pair** | Interface | | | |
| L | name | External | | NO | |
| L | symbol | External | | NO | |
| L | decimals | External | | NO | |
| L | totalSupply | External | | NO | |
| L | balanceOf | External | | NO | |
| L | allowance | External | | NO | |
| L | approve | External | | | NO | |
| L | transfer | External | | | NO | |
| L | transferFrom | External | | | NO | |
| L | DOMAIN SEPARATOR | External | | | NO | |
| L | PERMIT_TYPEHASH | External | | | NO | |
| L | nonces | External | | NO |
| L | permit | External | | | NO | |
| L | MINIMUM LIQUIDITY | External | | NO | |
| L | factory | External | | NO | |
| L | token0 | External | | NO | |
| L | token1 | External | | NO | |
| L | getReserves | External | | | NO | |
| L | price0CumulativeLast | External | | NO | |
| L | price1CumulativeLast | External | | NO | |
| L | kLast | External | | NO | |
| L | mint | External | | | NO | |
| L | burn | External | | | NO | |
| L | swap | External | | | NO | |
| L | skim | External | | | NO | |
| L | sync | External | | | NO | |
| L | initialize | External | | | NO | |
```



```
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| **IUniswapV2Router01** | Interface | | | | | |
| L | factory | External | | NO | |
| L | WETH | External | | NO | |
| L | addLiquidity | External | | | NO | |
| L | removeLiquidity | External | | | NO | |
| | removeLiquidityETH | External | | | NO | |
| | removeLiquidityWithPermit | External | | | NO | |
| | removeLiquidityETHWithPermit | External | | | NO | |
| L | swapExactTokensForTokens | External | | ( NO | |
📙 | swapTokensForExactTokens | External 📗 🛑 | NO 📗
| L | swapExactETHForTokens | External | | 🔟 | NO | |
| L | swapTokensForExactETH | External | | | NO | |
| L | swapExactTokensForETH | External | | | NO | |
| L | swapETHForExactTokens | External | | I NO | |
| L | quote | External | | | NO | |
| L | getAmountOut | External L | NOL |
| L | getAmountIn | External | | NO | |
| L | getAmountsOut | External | | NO | |
| L | getAmountsIn | External | | NO | |
\Pi\Pi\Pi\Pi\Pi
| **IUniswapV2Router02** | Interface | IUniswapV2Router01 | | | | | |
| L | removeLiquidityETHSupportingFeeOnTransferTokens | External | | | NO | |
| L | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External | | | | NO | |
| L | swapExactTokensForTokensSupportingFeeOnTransferTokens | External | | | NO | |
| L | swapExactTokensForETHSupportingFeeOnTransferTokens | External | | | | NO | |
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| **IERC20** | Interface | | | | | |
| L | totalSupply | External | | NO | |
| L | balanceOf | External | | NO | |
| L | transfer | External | | | NO | |
| L | allowance | External | | NO | |
| L | approve | External | | | NO | |
| L | transferFrom | External | | | NO | |
IIIIIII
| **IERC20Metadata** | Interface | IERC20 | | | |
| L | name | External | | NO | |
| L | symbol | External | | NO | |
| L | decimals | External | | NO | |
111111
```



```
**Address** | Library | |||
| L | sendValue | Internal 🦲 | 🛑 | | | | |
| L | functionCall | Internal 🦰 | 🛑 | |
| L | functionCall | Internal 🦲 | 🦲 | |
| L | functionCallWithValue | Internal 🦰 | 🛑 | |
| L | functionCallWithValue | Internal 🦰 | 🛑 | |
| | | functionStaticCall | Internal | | | | |
| | | functionStaticCall | Internal | | | | |
| L | functionDelegateCall | Internal 🦲 | 🛑 | |
| L | functionDelegateCall | Internal 🦰 | 🛑 | |
| | verifyCallResultFromTarget | Internal 🦰 | | |
| L | verifyCallResult | Internal 🦰 | | |
| L | revert | Private 🦳 | | |
\Pi\Pi\Pi\Pi\Pi
| **Context** | Implementation | | | |
| L | _msgSender | Internal 🦰 | | |
| L | _msgData | Internal 🦲 | | |
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| **Ownable** | Implementation | Context | | | |
| L | <Constructor> | Public | | ( NO | |
| L | owner | Public | | NO | |
| L | renounceOwnership | Public | | (e) | onlyOwner |
| L | transferOwnership | Public | | ( ) | onlyOwner |
IIIIIII
| **ERC20** | Implementation | Context, IERC20, IERC20Metadata | | | | | |
| 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 | _mint | Internal 🦰 | 🛑 | |
| L | _burn | Internal 🦲 | 🧓 | |
```



```
| L | _beforeTokenTransfer | Internal 🦰 | 🛑 | |
| L | _afterTokenTransfer | Internal 🦰 | 🛑 | |
111111
| **BAIT** | Implementation | ERC20, Ownable | | | | | |
| L | <Constructor> | Public | | | | | ERC20 |
| L | <Receive Ether> | External | | I I INO | |
| | claimStuckTokens | External | | | | onlyOwner |
| | excludeFromFees | External | | | onlyOwner |
| L | isExcludedFromFees | Public | | | NO | |
| L | enableTrading | External | | | | onlyOwner |
📙 | transfer | Internal 🦰 | 🛑 | |
| L | setSwapEnabled | External | | 🛑 | onlyOwner | |
| L | setSwapTokensAtAmount | External | | | | onlyOwner |
| L | swapAndSendMarketing | Private 🖺 | 🛑 | |
Legend
| Symbol | Meaning |
|:-----|
| I Function is payable |
```



STATIC ANALYSIS

```
Address, functional (Laddress, bytes) (contracts/Token, sole#80=189) is never used and should be removed
Address, functional (Laddress, bytes, string) (contracts/Token, sole#20=491) is never used and should be removed
Address, functional (Laddress, bytes, unit250) (contracts/Token, sole#20=491) is never used and should be removed
Address, functional (Laddress, bytes) (contracts/Token, sole#20=491) is never used and should be removed
Address, functional (Laddress, bytes) (contracts/Token, sole#30=391) is never used and should be removed
Address, functional (Laddress, bytes) (contracts/Token, sole#30=391) is never used and should be removed
Address, functional (Laddress, bytes) (contracts/Token, sole#30=391) is never used and should be removed
Address, soleward (Laddress, bytes) (contracts/Token, sole#30=391) is never used and should be removed
Address, soleward (Laddress) (contracts/Token, sole#30=391) is never used and should be removed
Address, verifyCallesuit(FromFinger (Laddress, bool, bytes, string) (contracts/Token, sole#30=391) is never used and should be removed
Address, verifyCallesuit(FromFinger (Laddress, bool, bytes, string) (contracts/Token, sole#30=391) is never used and should be removed
Address, verifyCallesuit(FromFinger (Laddress, bool, bytes, string) (contracts/Token, sole#30=391) is never used and should be removed
Address, verifyCallesuit(FromFinger (Laddress, bool, bytes, string) (contracts/Token, sole#30=391) is never used and should be removed
Address, soleman (Laddress, bool, bytes, string) (contracts/Token, sole#30=391) is never used and should be removed
Address, verifyCallesuit(FromFinger (Laddress, bytes, string) (contracts/Token, sole#30=391) is never used and should be removed
Address, verifyCallesuit(FromFinger (Laddress, bytes, string) (contracts/Token, sole#30=391) is never used and should be removed
Address, soleman (Laddress, bytes, string) (contracts/Token, sole#30=391) is never used and should be removed
Address, soleman (Laddress, bytes, string) (Laddress, bytes, string) (L
```

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):

liquidity added on Pancakeswap V2:

https://testnet.bscscan.com/tx/0x00c93464e4e566fb23dfa54b6caceb6663af639dc4dda0ba44b536f0d99c5da0

2- Buying when excluded (0%)(Passed):

https://testnet.bscscan.com/tx/0x0aec111ecd3218af5dbc9529af35 083a8c4ec2c7c62d53f2e253b5cfa793aeae

3- Selling when excluded (0%)(Passed):

https://testnet.bscscan.com/tx/0x13cfee1f7e2c6f6950cc87f79dd0 860bf1a924d57877f61f3d519623d3e7d18b

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

https://testnet.bscscan.com/tx/0x4d14b1b27fe8ef4d0d3796c3584 f96f24e368987a0cc7bf533128e1cee18a2be

5- Buying when not excluded (3% tax) (passed):

https://testnet.bscscan.com/tx/0x92ef6f24a8116bd963c2e55d6b8 7a87769e58232ec74d08f471142d3615b7e1e



FUNCTIONAL TESTING

6- Selling when not excluded (3% tax) (passed):

https://testnet.bscscan.com/tx/0x36135041c5fe91805d20b509eb 7ec411adf07f904b0b80cd46615da655b8107d

7- Transferring when not excluded(0% tax) (passed):

https://testnet.bscscan.com/tx/0x3178a13c8ad3bb846a63c9ecba73c46d334a7570afa3007ba836144557fcc5f4

8- Internal swap (passed):

fee wallets received BNB with same amount (1/3 of contract BNB)

https://testnet.bscscan.com/address/0x55d2279d69c729284a1e3d01ca70676a58fa63d3#internaltx

https://testnet.bscscan.com/address/0x956cf7601835e3a2e238dcab94c2d5c40e1deced#internaltx

https://testnet.bscscan.com/address/0xefa0991489caeabefcc13cdc6d168d4b348dd4ba#internaltx



MANUAL TESTING

No Issues Found



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