

# Smart Contract Audit

**FOR** 

# Baby Aliens

**DATED: 30 JAN 23'** 



# **AUDIT SUMMARY**

Project name - Baby Aliens

**Date: 30** January, 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	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 Test Network:

all tests were done on BSC Testnet network, each test has its transaction has attached to it. . You can check this tests in "functionality tests" section of the report.

3- Slither: Static Analysis

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

https://testnet.bscscan.com/token/0x95f6c0f3cab3 03b55429a32ea580c0f69e8fe747



# **Token Information**

Token Name: BabyAliens

Token Symbol: BAP

Decimals: 18

Token Supply: 100,000,000,000

#### **Token Address:**

0xdD2565E0561A4Fea6256f767f658CCcF09e55Fb3

#### Checksum:

4c3ff1d73018dc5a5cdd9721f536546adea313f505a8 a5f83b0a2935a19c5a85

## Deployer:

0xF34CE2b1d2F94a432cF5b6e5D0F67e45f2835d67

#### **Owner:**

0xF34CE2b1d2F94a432cF5b6e5D0F67e45f2835d67



# **TOKEN OVERVIEW**

Fees:

Buy Fees: - 8%

Sell Fees: - 8%

Transfer Fees: - 0%

Fees Privilige: Owner

Ownership: Owned

Minting: No mint function

Max Tx Amount: No

Blacklist: No

Other Priviliges: setting max buy & sell amounts



# **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.

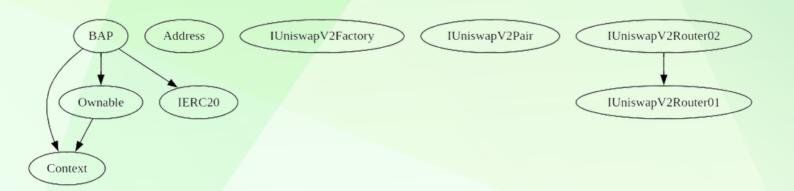
A vulnerability that has an informational character but is not affecting any of the code.

# **Findings**

Severity	Found
<b>♦</b> Critical	0
♦ High-Risk	0
◆ Medium-Risk	0
♦ Low-Risk	0
<ul><li>Gas Optimization /</li><li>Suggestions</li></ul>	0



# **INHERITANCE TREE**





# **POINTS TO NOTE**

- Owner is not able to set sell taxes over 12% and buy taxes over 8%
- Owner is not able to blacklist an arbitrary wallet
- Owner is not able to set max buy/sell/transfer amounts
- Owner is not able to disable trades
- Owner is not able to mint new tokens



```
| Contract |
                 Type
                               Bases
<mark>|;-----:|;-----:|;-----:</mark>-;|;------;|;-----:|;
        | **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
111111
| **Context** | Implementation | | | |
| L | _msgSender | Internal 🦰 | | |
| | msgData | Internal 🦰 | | |
\Pi\Pi\Pi\Pi\Pi
**Ownable** | Implementation | Context | | |
| L | <Constructor> | Public | | ( NO | |
| L | owner | Public | | NO | |
renounceOwnership | Public | | 🛑 | onlyOwner |
🖊 | transferOwnership | Public 📗 | 🛑 | onlyOwner |
111111
| **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 | |
\mathbf{H}\mathbf{H}\mathbf{H}\mathbf{H}
| **Address** | Library | | | |
| L | sendValue | Internal 🦰 | 🛑 | |
| L | functionCall | Internal 🦲 | 🧓 | |
| L | functionCall | Internal 🦲 | 🔘 | |
| L | functionCallWithValue | Internal 🦰 | 🛑 | |
| L | functionCallWithValue | Internal 🦰 | 🛑 | |
| L | functionCallWithValue | Private 🦳 | 🛑 | |
111111
| **IUniswapV2Factory** | Interface | ||| | |
| L | feeTo | External | | NO | |
| L | feeToSetter | External | | NO | |
| L | getPair | External | | | NO | |
| L | allPairs | External | | NO | |
| L | allPairsLength | External | | NO | |
| L | createPair | External | | | NO | |
| L | setFeeTo | External | | | NO | |
| L | setFeeToSetter | External | | | NO | |
111111
| **IUniswapV2Pair** | Interface | | | |
```



```
| L | name | External | | NO | | | |
| | 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 | |
| | | 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 | |
| | price1CumulativeLast | External | | NO |
| L | kLast | External | | NO | |
| L | burn | External | | | NO | |
| L | swap | External | | | NO | |
| L | skim | External | | | NO | |
| L | sync | External | | | NO | |
| L | initialize | External | | | NO | |
111111
| **IUniswapV2Router01** | Interface | | | | | | |
| L | factory | External | | | NO | |
| L | WETH | External | | NO | |
| L | addLiquidity | External | | | | NO | |
| L | removeLiquidity | External | | | NO | |
| L | removeLiquidityETH | External | | | NO | |
| L | removeLiquidityWithPermit | External | | | NO | |
| L | removeLiquidityETHWithPermit | External | | | NO | |
| L | swapExactTokensForTokens | External | | | NO | |
| L | swapTokensForExactTokens | External | | | NO | |
| L | swapExactETHForTokens | External | | I NO | |
| L | swapTokensForExactETH | External | | | NO | |
```



```
| L | swapETHForExactTokens | External | | I | NO | |
| | quote | External | | NO | |
| | getAmountOut | External | | NO | |
| L | getAmountIn | External | | | NO | |
| | getAmountsOut | External | | NO | |
| | getAmountsin | External | | NO | |
**IUniswapV2Router02** | Interface | IUniswapV2Router01 | | |
| | removeLiquidityETHSupportingFeeOnTransferTokens | External | | | NO | | |
| | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External | | | | NO | |
| L | swapExactTokensForTokensSupportingFeeOnTransferTokens | External | | | NO | |
| | swapExactETHForTokensSupportingFeeOnTransferTokens | External | | 🔟 | NO | |
| L | swapExactTokensForETHSupportingFeeOnTransferTokens | External | | | NO | |
IIIIIII
| **BAP** | Implementation | Context, IERC20, 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 | transfer | Public | | | | NO | |
| L | allowance | Public | | NO | |
| L | approve | Public | | | | NO | |
| L | transferFrom | Public | | | | NO | |
| L | increaseAllowance | Public | | | NO | |
| L | decreaseAllowance | Public | | | NO | |
| L | isExcludedFromReward | Public | | NO | |
| L | totalReflectionDistributed | Public | | NO |
| L | reflectionFromToken | Public | | NO | |
| L | tokenFromReflection | Public | | NO |
| L | claimStuckTokens | External | | | | onlyOwner |
| L | _reflectFee | Private 🤔 | 🥮 | |
| L | _getValues | Private 🦳 | | |
| L | _getTValues | Private 🤔 | | |
| L | getRValues | Private 🦳 | | |
| L | _getRate | Private 🦳 | | |
```



```
| L | _getCurrentSupply | Private (P) | | | |
| L | _takeLiquidity | Private 🦳 | 🦲 | |
| L | _takeMarketing | Private 🦳 | 🛑 | |
| L | calculateTaxFee | Private 😷 | | | |
| | calculateLiquidityFee | Private ( |
| | calculateMarketingFee | Private 🦰 | | |
| L | setBuyFee | Private 🦳 | 🧓 | |
| L | setSellFee | Private 🖰 | 🛑 | |
| L | isExcludedFromFee | Public | | NO | |
📙 _approve | Private 😷 | 🧶 | |
📙 | _transfer | Private 傄 | 🧶 | |
| L | swapAndLiquify | Private 傄 | 🛑 | | | |
| L | swapAndSendMarketing | Private 📍 | 🛑 | |
| L | setSwapTokensAtAmount | External | | | | onlyOwner |
| L | setSwapEnabled | External | | | | onlyOwner |
| L | tokenTransfer | Private 🦳 | 🛑 | |
| L | transferStandard | Private 🦳 | 🛑 | |
| L | _transferToExcluded | Private 🛅 | 🛑 | |
| L | _transferFromExcluded | Private 🛅 | 🛑 | |
| L | _transferBothExcluded | Private 🕑 | 🛑 | |
| L | excludeFromFees | External | | | onlyOwner |
| L | changeMarketingWallet | External | | ( ) | onlyOwner |
| L | setBuyFeePercentages | External | | | | onlyOwner |
| L | setSellFeePercentages | External | | | | onlyOwner |
| Symbol | Meaning |
|:-----|
 | Function can modify state |
   Function is payable |
```



## STATIC ANALYSIS

```
Address. functionCallwintNatureLandress.bytes.uint256,string) (Contracts/Ace Testing BSC.sole]10-138) is never used and should be removed Address.functionCallwindress.bytes) (contracts/Ace Testing BSC.sole]10-100) is never used and should be removed Address.functionCallwindress.bytes) (contracts/Ace Testing BSC.sole]10-100) is never used and should be removed Address.functionCallwindress.bytes.string) (contracts/Ace Testing BSC.sole]10-100) is never used and should be removed Address.functionCallwindress.bytes.string.BSC.sole[81-90] is never used and should be removed Address.stringCallwindress.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.bytes.byte
```

Result => A static analysis of contract's source code has been performed using slither, no major issues were found



# **FUNCTIONAL TESTING**

#### Router (PCS V2):

0xD99D1c33F9fC3444f8101754aBC46c52416550D1

#### 0- Deploying (Passed):

https://testnet.bscscan.com/tx/0x528c78f4ee4bdbedc8ab9815f7 b2680e17a4287af795e24edd7c33cebedc0b7a

## 1- Adding Liquidity (Passed):

liquidity added on Pancakeswap V2:

https://testnet.bscscan.com/tx/0x40b1649a19395452e1e04aa4cca 36128e783bbc0a2e472b9749bf4beca1e284c

no issue were found on adding liquidity.

## <u>2</u>- Excluding deployer's wallet from taxes (to test taxes)

(Passed):

https://testnet.bscscan.com/tx/0xc10652f51e0459f45a33dc31adf 4c55a944f4c25bda207ae0936db7931117a38

## 3- Setting buy and sell fees (Passed):

https://testnet.bscscan.com/tx/0x1f3f8404485c65825d2ac77309 5deb7250c17b28633d7b37604ae6174e74d3c5

https://testnet.bscscan.com/tx/0x9a24afc5e67263d8c5111c2d0bd f047036a611dce8e568c57aa06c2cc56cdac1



# **FUNCTIONAL TESTING**

### 4- Buying from a non-whitelisted wallet (Passed):

https://testnet.bscscan.com/tx/0x53674b43d37effbd3e8f4d38db 069b186da40289c2a9595f7c212fd94aa5c04d

8% tax applied

#### 5- Selling from a non-whitelisted wallet (Passed):

https://testnet.bscscan.com/tx/0xb0e3e8cf27684df16aed077527 30957574d08c7f96117cf4bb6e3f6ec99fee94

12% static tax on sells

#### 6- Internal Swap (Passed):

taxes were swapped to BNB and sent to staking and marketing wallets:

### marketing:

https://testnet.bscscan.com/address/0x23a01037deeed9f2fd8440 0ae8a1d5f84a91ea16#internaltx



# **FUNCTIONAL TESTING**

#### 7- Auto-Liquidity (Passed):

dead wallet received LP generated tokens:

https://testnet.bscscan.com/token/0x0baa85fed8d9dc6a507e7e4 543438e0e5827581b?



# **MANUAL TESTING**

# NO ISSUES WERE FOUND



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https://github.com/Audit-Ace