

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.

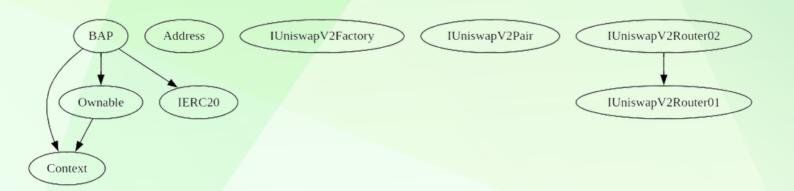
A vulnerability that has an informational character but is not affecting any of the code.

Findings

Severity	Found
♦ 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 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



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.stringBSC.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.byt
```

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.

2- 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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ABOUT AUDITACE

We specializes in providing thorough and reliable audits for Web3 projects. With a team of experienced professionals, we use cutting-edge technology and rigorous methodologies to evaluate the security and integrity of blockchain systems. We are committed to helping our clients ensure the safety and transparency of their digital assets and transactions.



https://auditace.tech/



https://t.me/Audit_Ace



https://twitter.com/auditace_



https://github.com/Audit-Ace



```
| 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 🦳 | 🛑 | |
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| **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 | |
\Pi\Pi\Pi\Pi\Pi
| **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 | |
| | | 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 | |
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| **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 |
```