

Smart Contract Audit

FOR

BNBsongoku

DATED: 21 MAR 23'



AUDIT SUMMARY

Project name - BNBsongoku

Date: 21 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: Already Launched

Note:

At the time of preparing this audit, the token has already been launched and is being traded. It is important to note that the audit was conducted after the token's introduction on PCSV2. As such, any potential malicious activities by the owner or issues associated with the contract are beyond the scope of this audit.



Token Information

Token Name: BNBsongoku

Token Symbol: BNBsongoku

Decimals: 9

Token Supply: 10000000000000

Token Address:

0x8e09aD03472948E1122f48667F5C7071d27cB3c2

Checksum:

46dda4c1b172d20efb681c3c4ba56a60bd5edb31

Owner:

Deployer:

0x39dC36d049F4E4Cd40a50E2b7443e791a6A6E390



TOKEN OVERVIEW

Fees:

Buy Fees: 8%

Sell Fees: 8%

Transfer Fees: 8%

Fees Privilige: None

Ownership: renounced

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.

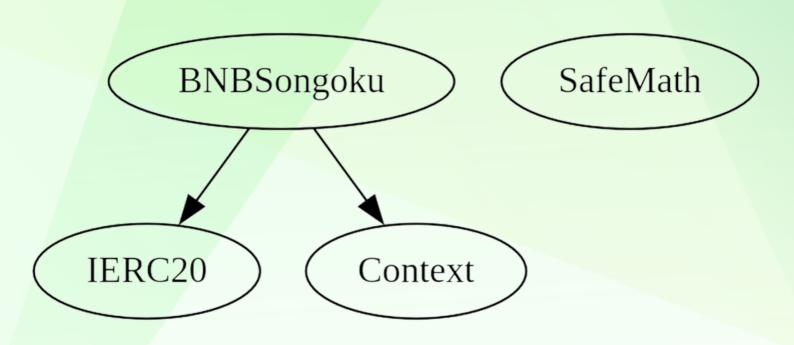
A vulnerability that has an informational character but is not affecting any of the code.

Findings

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



INHERITANCE TREE





POINTS TO NOTE

- Ownership is renounced, meaning owner has not control over the contract functions
- Owner is not able to modify buy/sell/transfer fees (8% for each)
- 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 |
                 Type
                               Bases
| ;-----:| ;-----:| ;-----:|
        | **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
\Pi\Pi\Pi\Pi
| **IERC20** | Interface | | | | | | |
| L | totalSupply | External | | NO | |
| L | balanceOf | External | | NO | |
| L | transfer | External | | | NO | |
| | allowance | External | | NO | |
| L | approve | External | | | | NO | |
| L | transferFrom | External | | | | NO | |
| **SafeMath** | Library | | | | |
| L | add | Internal 🦰 | | | |
| L | sub | Internal 🦰 | | |
| L | mul | Internal 🦰 | | | |
| L | div | Internal 🦰 | | |
| L | sub | Internal 🦰 | | | |
| L | div | Internal 🦰 | | | |
\Pi\Pi\Pi\Pi\Pi
| **Context** | Implementation | | | |
| L | _msgSender | Internal 🖺 | | |
| L | msgData | Internal 🦰 | | |
\Pi\Pi\Pi\Pi\Pi
| **Address** | Library | | | |
| L | isContract | Internal 🦰 | | |
| L | sendValue | Internal 🦰 | 🛑 | |
| L | functionCall | Internal 🦲 | 🛑 | |
| L | functionCall | Internal 🦰 | 🛑 | |
| L | functionCallWithValue | Internal 🦰 | 🛑 | |
| L | functionCallWithValue | Internal 🖺 | 🛑 | |
| L | functionStaticCall | Internal 🦰 | | |
| L | functionStaticCall | Internal 🦰 | | |
| L | functionDelegateCall | Internal 🖲 | 🧓 | |
| L | functionDelegateCall | Internal 🦰 | 🛑 | |
| L | verifyCallResult | Private 🖺 | | |
\Pi\Pi\Pi\Pi
| **IUniswapV2Factory** | Interface | | | | |
| L | feeTo | External | | NO | |
| L | feeToSetter | External | | NO | |
| L | getPair | External | | NO | |
```



```
| L | allPairs | External | | NO | | |
| | allPairsLength | External | | NO | |
| L | createPair | External | | | NO | |
| | setFeeTo | External | | | NO | |
| L | setFeeToSetter | External | | | NO | |
\Pi\Pi\Pi\Pi\Pi
| **IUniswapV2Pair** | Interface | | | | | |
| | 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 | |
| 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 | |
| | price0CumulativeLast | External | | NO | |
| | price1CumulativeLast | External | | NO |
| L | kLast | External | | NO | |
| L | burn | External | | | NO | |
| L | swap | 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 | addLiquidityETH | External | | III | INO | |
| | removeLiquidity | External | | | NO | |
| L | removeLiquidityETH | External | | | NO | |
```



```
| L | removeLiquidityWithPermit | External | | | NO | | | |
| L | removeLiquidityETHWithPermit | External | | | NO | |
| L | swapExactTokensForTokens | External | | | NO | |
| | swapTokensForExactTokens | External | | | NO | |
| | swapExactETHForTokens | External | | | | | NO | |
| L | swapTokensForExactETH | External | | 🛑 | NO | |
| L | swapExactTokensForETH | External | | 🛑 | NO | |
| | swapETHForExactTokens | External | | | | NO | |
| | quote | External | | NO | |
| | getAmountOut | External | | | NO | |
| L | getAmountIn | External | | | NO | |
| | getAmountsOut | External | | NO | |
| L | getAmountsIn | External | | NO | |
\mathbf{H}
| **IUniswapV2Router02** | Interface | IUniswapV2Router01 | | | | | |
| | removeLiquidityETHSupportingFeeOnTransferTokens | External | | | | NO | |
| | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External | | | | NO | |
| L | swapExactTokensForTokensSupportingFeeOnTransferTokens | External | | | NO | |
| L | swapExactTokensForETHSupportingFeeOnTransferTokens | External | | | | NO | |
\Pi\Pi\Pi\Pi\Pi
| **BNBSongoku** | Implementation | Context, IERC20 | | | | | |
| L | owner | Public | | NO | |
| L | renounceOwnership | Public | | | | NO | |
| 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 | _getCurrentSupply | Private <a>P</a> | | | |
| L | _approve | Private 🦳 | 🥮 | |
| L | transfer | Private 🦳 | 🧓 | |
| L | sendToWallet | Private 🦳 | 🧓 | |
```



```
| L | swapAndLiquify | Private P | O | lockTheSwap |
| L | swapTokensForBNB | Private P | O | |
| L | addLiquidity | Private P | O | |
| L | remove_Random_Tokens | Public P | O | |
| L | _tokenTransfer | Private P | O | |

Legend

| Symbol | Meaning |
|:------|
| Function can modify state |
| Function is payable |
```



STATIC ANALYSIS

```
Reentrancy in BMBSongoku.transferFromiodress_address_uint250 (contracts/Token.sol#869-684):
External calls:
    __transfer(sender_recipient_amount) (contracts/Token.sol#869)
    __atlact.transfer(sender_recipient_amount) (contracts/Token.sol#869)
    __transfer(sender_recipient_amount) (contracts/Token.sol#869)
    __transfer(sender_recipient_amount) (contracts/Token.sol#869)
    __atlact.transfer(sender_recipient_amount) (contracts/Token.sol#868)
    __aslocater_saddia_qualtyfer(fequience: BMBsongokus)
    __aslocater_saddia_qualtyfer(fequience: BMBsongokus)
    __aslocater_saddia_qualtyfer(fequience: BMBsongokus)
    __aslocater_saddia_qualtyfer(fequience: BMBsongokus, solf#869)
    __aslocater_saddia_qualtyfer(fequience: BMBsongokus, solf#869)
    __aslocater_saddia_qualtyfer(fequience: BMBsongokus, solf#869)
    __aslocater_saddia_qualtyfer(fequience)
    __asson_saddia_qualtyfer(fequience)
    __asson_saddia
```

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

No issues found



FUNCTIONAL TESTING

Token is already launched at time of writing this audit and is being traded with an active (BNB/Itachi) pool at PCS v2. buying/selling/burning/transferring/internal swap seem to be working as expected.

At the time of preparing this audit, the token has already been launched and is being traded. It is important to note that the audit was conducted after the token's introduction on PCSV2. As such, any potential malicious activities by the owner or issues associated with the contract are beyond the scope of this audit.



MANUAL TESTING

No Issues Found



Social Media Overview

Here are the Social Media Accounts of BNBsongoku



https://t.me/BNBSONGOKU



https://twitter.com/BNBSongoku



https://bnbsongoku.com



DISCLAIMER

All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment. Team provides no guarantees against the sale of team tokens or the removal of liquidity by the project audited in this document. Always Do your own research and protect yourselves from being scammed. The Auditace team has audited this project for general information and only expresses their opinion based on similar projects and checks from popular diagnostic tools. Under no circumstances did Auditace receive a payment to manipulate those results or change the awarding badge that we will be adding in our website. Always Do your own research and protect yourselves from scams. This document should not be presented as a reason to buy or not buy any particular token. The Auditace team disclaims any liability for the resulting losses.



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