

Smart Contract Audit

FOR

CHIBAINU

DATED: 04 Jan, 2024



AUDIT SUMMARY

Project name - CHIBAINU

Date: 04 Jan, 2024

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	1	0	2
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 conducted on the BSC Test network, and each test has a corresponding transaction attached to it. These tests can be found in the "Functional Tests" section of the report.

3- Slither:

The code has undergone static analysis using Slither.

Testnet version:

The tests were performed using the contract deployed on the BSC Testnet, which can be found at the following address:

https://testnet.bscscan.com/address/0x115544F9ca E4ad469440D36daf0c004D31BDc336#code



Token Information

Token Address:

0xb2A3f1DF14b1aF76Ad6d53f4AD5fb51Bfde44D60

Name: CHIBAINU

Symbol: CHIBA

Decimals: 18

Network: BscScan

Token Type: BEP-20

Owner:

0xF4436AD72717ac3d963d75273baf984dA9a53F2A

Deployer:

0x4659d1a6eee90b5f108c5e60a13fe1fd32161d6d

Token Supply: 300,000,000

Checksum: Ade3cef7c2c788bc03532d7342fc9ghf

Testnet:

https://testnet.bscscan.com/address/0x115544F9caE4ad469440D36daf0c004D31BDc336#code



Blacklist: No

TOKEN OVERVIEW

Buy Fee: 5%

Sell Fee: 5%

Transfer Fee: 0-0%

Fee Privilege: Owner

Ownership: Owned

Minting: None

Max Tx: Yes



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.

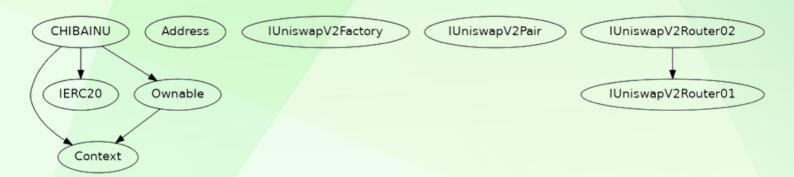
A vulnerability that has an informational character but is not affecting any of the code.

Findings

Severity	Found
♦ Critical	0
♦ High-Risk	0
◆ Medium-Risk	1
◆ Low-Risk	0
Gas Optimization /Suggestions	2



INHERITANCE TREE





POINTS TO NOTE

- The owner can transfer ownership.
- The owner can renounce ownership.
- The owner can Exclude/Include wallets from fees.
- The owner can set the token to swap.
- The owner can set a marketing wallet address.



STATIC ANALYSIS

```
CHIBAINU.transferToAddressETH(address,uint256) (CHIBAINU.sol#745-752) uses a dangerous strict equality:
- amount == 0 (CHIBAINU.sol#749)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dangerous-strict-equalities
INFO:Detectors:
CHIBAINU.constructor().currentRouter (CHIBAINU.sol#551) is a local variable never initialized
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#uninitialized-local-variables
 IMPO:Detectors:

CHIBAINU.allowance(address,address)._owner (CHIBAINU.sol#583) shadows:

- Ownable._owner (CHIBAINU.sol#197) (state variable)

CHIBAINU._approve(address,address,uint256)._owner (CHIBAINU.sol#631) shadows:

- Ownable._owner (CHIBAINU.sol#197) (state variable)

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing
INFO: Detectors:
               External calls:
- swapAndLiquify() (CHIBAINU.sol#657)
                                - (succ) = recipient.call{value: amount}() (CHIBAINU.sol#750)
- uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (CHIBAINU.sol#688-694)
               External calls sending eth:
    swapAndLiquify() (CHIBAINU.sol#657)
               - (succ) = recipient.call{value: amount}() (CHIBAINU.sol#750)
State variables written after the call(s):
               - marketingTokensCollected += fee (CHIBAINU.sol#671)
- totalMarketingTokensCollected += fee (CHIBAINU.sol#672)
ncy in CHIBAINU.swapAndLiquify() (CHIBAINU.sol#676-682):
               External calls:
              - swapTokensForEth(totalTokens) (CHIBAINU.sol#678)
- uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (CHIBAINU.sol#688-694)
- transferToAddressETH(marketingWallet,ethBalance) (CHIBAINU.sol#750)
- (succ) = recipient.call{value: amount}() (CHIBAINU.sol#750)

External calls sending eth:
- transferToAddressETH(marketingWallet,ethBalance) (CHIBAINU.sol#680)
- (succ) = recipient.call{value: amount}() (CHIBAINU.sol#750)

State variables written after the call(s):
- marketingTokensCollected = 0 (CHIBAINU.sol#681)
ce: https://github.com/crytic/slither/wiki/Detector-DocumentationWreentrancy-vulnerabilities-2
INFO: Detectors:
               ncy in CHIBAINU._transfer(address,address,uint256) (CHIBAINU.sol#637-675):
               External calls
                                - (succ) = recipient.call{value: amount}() (CHIBAINU.sol#750)
- uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (CHIBAINU.sol#688-694)
               External calls sending eth:
- swapAndLiquify() (CHIBAINU.sol#657)
               - (succ) = recipient.call{value: amount}() (CHIBAINU.sol#750)
Event emitted after the call(s):
```



STATIC ANALYSIS

```
INFO:Detectors:
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#assembly-usage
INFO:Detectors:
         -require(bool,string)(_isExcludedFromFee[account] != true,The wallet is already excluded!) (CHIBAINU.sol#710-713)
CHIBAINU.includeInFee(address) (CHIBAINU.sol#717-724) compares to a boolean constant:
-require(bool,string)(_isExcludedFromFee[account] != false,The wallet is already included!) (CHIBAINU.sol#718-721)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#boolean-equality
INFO:Detectors:
Address._revert(bytes,string) (CHIBAINU.sol#182-194) is never used and should be removed
Address.functionCall(address,bytes) (CHIBAINU.sol#53-64) is never used and should be removed
Address.functionCall(address,bytes,string) (CHIBAINU.sol#65-71) is never used and should be removed
Address.functionCallWithValue(address,bytes,uint256) (CHIBAINU.sol#72-84) is never used and should be removed
Address.functionCallWithValue(address,bytes,uint256,string) (CHIBAINU.sol#85-105) is never used and should be removed Address.functionDelegateCall(address,bytes) (CHIBAINU.sol#131-141) is never used and should be removed
Address.functionDelegateCall(address,bytes,string) (CHIBAINU.sol#142-155) is never used and should be removed
Address.functionStaticCall(address,bytes) (CHIBAINU.sol#106-116) is never used and should be removed
Address.functionStaticCall(address,bytes,string) (CHIBAINU.sol#117-130) is never used and should be removed Address.isContract(address) (CHIBAINU.sol#39-41) is never used and should be removed
Address.sendValue(address,uint256) (CHIBAINU.sol#42-52) is never used and should be removed
Address.verifyCallResultFromTarget(address,bool,bytes,string) (CHIBAINU.sol#156-170) is never used and should be removed CHIBAINU.swapETHForTokens(uint256) (CHIBAINU.sol#755-768) is never used and should be removed
Context._msgData() (CHIBAINU.sol#10-12) is never used and should be removed
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code
INFO: Detectors:
Pragma version0.8.19 (CHIBAINU.sol#5) necessitates a version too recent to be trusted. Consider deploying with 0.8.18.
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity
INFO: Detectors:
    level call in Address.sendValue(address,uint256) (CHIBAINU.sol#42-52):
           (success) = recipient.call{value: amount}() (CHIBAINU.sol#47)
Low level call in Address.functionCallWithValue(address,bytes,uint256,string) (CHIBAINU.sol#85-105):
- (success,returndata) = target.call{value: value}(data) (CHIBAINU.sol#95-97)
Low level call in Address.functionStaticCall(address,bytes,string) (CHIBAINU.sol#117-130):
           (success,returndata) = target.staticcall(data) (CHIBAINU.sol#122)
Low level call in Address.functionDelegateCall(address,bytes,string) (CHIBAINU.sol#142-155):
           (success,returndata) = target.delegatecall(data) (CHIBAINU.sol#147)
Low level call in CHIBAINU.transferToAddressETH(address,uint256) (CHIBAINU.sol#745-752):
           (succ) = address(marketingWallet).call{value: ethBalance}() (CHIBAINU.sol#771)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-calls
```

```
Parameter CHEBAIN.setTokensToSmap(uint256), _uninumTokensEeforExamp (CHEBAINU.setTokensToSmap(uint256), _uninumTokensEeforExamp (CHEBAINU.setTokensToSmap(uint256), _uninumTokensEeforExamp (CHEBAINU.setTokensToSmap(uint256), _uninumTokensEeforExamp (CHEBAINU.setTokensToSmap(uint256), _uninumTokensEeforExamp (CHEBAINU.setTokensEeforExamp (CHEBAINU.setTokensEeforExam
```



FUNCTIONAL TESTING

1- Approve (passed):

https://testnet.bscscan.com/tx/0x814484f8f8799346f6ecce9132da8ad35e22fb96634a4b4d02308ea570607ca0

2- Increase Allowance (passed):

https://testnet.bscscan.com/tx/0xa7a2a7b6839171af753f7d73cf7 38a73d0bbf287bd92606f1db1c1ca4d8e8903

3- Decrease Allowance (passed):

https://testnet.bscscan.com/tx/0x6224cb85df9adbc3c7d4a73325 ffc02a1b9433b88d0be564762e9b0ccff4090a

4- Set Marketing Wallet (passed):

https://testnet.bscscan.com/tx/0x6c39226ad26a634191e4de083f 61c653aec277ec45c8d98fdcf734b2329a79d3



MANUAL TESTING

Centralization - Missing Require Check.

Severity: Medium

Function: SetMarketingWallet

Status: Open

Overview:

The owner can set any arbitrary address excluding zero address as this is not recommended because if the owner will set the address to the contract address, then the Eth will not be sent to that address and the transaction will fail and this will lead to a potential honeypot in the contract.

```
function setMarketingWallet(address _marketingWallet) external
onlyOwner {
require(_marketingWallet != address(0), "setmarketingWallet:
ZERO");
   marketingWallet = payable(_marketingWallet);
emit UpdateMarketingWallet(marketingWallet);
}
```

Suggestion:

It is recommended that the address should not be able to be set as a contract address.



MANUAL TESTING

Optimization

Severity: Optimization

Subject: Remove unused code.

Status: Open

Overview:

Unused variables are allowed in Solidity, and they do. not pose a direct security issue. Though it is the best practice to avoid them.

```
function _msgData() internal view virtual returns (bytes calldata)
{
  return msg.data;
  }
  event AuditLog(string, address);
  event UpdateStakingWallet(address);
  event UpdateBuyFee(uint256);
  event UpdateSellFee(uint256);
  event UpdateTransferFee(uint256);
  event UpdateDistribution(uint256, uint256);
  event TradingStarted(bool);
```



MANUAL TESTING

Optimization

Severity: Informational

Subject: uint256

Status: Open

Overview:

Use uit256 instead of uint. uint is an alias for uint256 and is not recommended for use. The variable size should be clarified, as this can cause issues when encoding data with selectors if the alias is mistakenly used within the signature string.

uint public buyFee = 5;



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