auditace.tech

AuditAce
FROM INCEPTION TO SUCCESS

Smart Contract Audit

FOR

CyberTeslaAi

DATED : 28 Dec, 2023

MANUAL TESTING

Centralization – Enabling Trades

Severity: High

function: Enabling Trades

Status: Open

Overview:
The **EnableTrading** function permits only the contract owner to activate trading capabilities. Until this function is executed, no investors can buy, sell, or transfer their tokens. This places a high degree of control and centralization in the hands of the contract owner.

```
function Open_Trade() external onlyOwner {
require(!Trade_Open, "TradeOpen");
   feeProcessingEnabled = true;
   Trade_Open = true;
```

Suggestion:
To reduce centralization and potential manipulation, consider one of the following approaches:

1. Automatically enable trading after a specified condition, such as the completion of a presale, is met.

2. If manual activation is still desired, consider transferring the ownership of the contract to a trustworthy, third-party entity like a certified "PinkSale Safu" developer. This can give investors more confidence in the eventual activation of trading capabilities, mitigating concerns of potential bad-faith actions by the original owner.

AUDIT SUMMARY

Project name – CyberTeslaAi

Date: 28 Dec, 2023

Scope of Audit- Audit Ace was consulted to conduct the smart contract audit of the solidity source codes.

Audit Status: **Passed With High Risk**

Issues Found

Status	Critical	High	Medium	Low	Suggestion
Open	0	1	2	3	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/0x81e52414810bb8f6f28edad93f0cdf1e8981fb7c#code

Token Information

Token Name : CyberTeslaAi

Token Symbol: CTA

Decimals: 18

Token Supply: 21000000000

Network: BscScan

Token Type: BEP-20

Token Address:
0x6510Ad47900079238dA5C95154BEFF985BF1E659

Checksum:
fe032c616934aeb47e6039f76b20d2k5

Owner:
0xD02f386fA4c4A3D53E6a9886dE940A246A51a8Cf
(at time of writing the audit)

Deployer:
0xD02f386fA4c4A3D53E6a9886dE940A246A51a8Cf

TOKEN OVERVIEW

Fees:

Buy Fees: 0-10%

Sell Fees: 0-10%

Transfer Fees: 0-0%

Fees Privilege: Owner

Ownership: Owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Privileges:

Whitelist to transfer without enabling trades

Enabling trades

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-by-line 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

- Return values of low-level calls
- Private modifier
- Multiple Sends
- Using Suicide
- Gas Limitand Loops
- Address hardcoded
- Exception Disorder
- Using inline assembly
- Divide before multiply
- Missing Zero Address Validation
- Compiler version not fixed
- **Gasless Send**
- Using block.timestamp
- Re-entrancy
- Tautology or contradiction
- Timestamp Dependence
- Revert/require functions
- Use of tx.origin
- Integer overflow/underflow
- Dangerous strict equalities
- Using SHA3
- Using throw

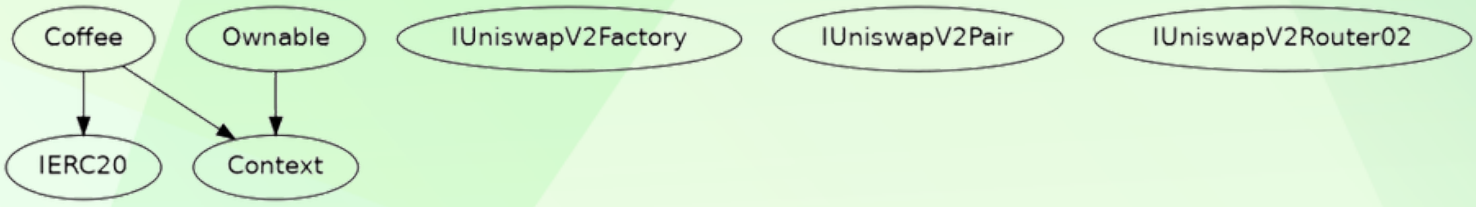
CLASSIFICATION OF RISK

Severity	Description
Critical	These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.
High-Risk	A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.
Medium-Risk	A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.
Low-Risk	A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.
Gas Optimization /Suggestion	A vulnerability that has an informational character but is not affecting any of the code.

Findings

Severity	Found
Critical	0
High-Risk	1
Medium-Risk	2
Low-Risk	3
Gas Optimization / Suggestions	2

INHERITANCE TREE



POINTS TO NOTE

- The owner can transfer ownership.
- The owner can renounce ownership.
- The owner can Enable trading.
- The owner can set the fees not more than 15%.
- The owner can set wallet limits.
- The owner can rescue trapped tokens.
- The owner can update telegram group/Lp locks URL/ Website URL.
- The owner can manually swap tokens.
- The owner can include/exclude wallets from rewards.

STATIC ANALYSIS

```
INFO:Detectors:
Coffee.addLiquidity(uint256,uint256) (Coffee.sol#520-530) ignores return value by uniswapV2Router.addLiquidityETH{value: BNBAmount}(address(this),tokenAmount,0,0,Wallet_Liquidity,block.timestamp) (Coffee.sol#5
22-529)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#unused-return
INFO:Detectors:
Coffee.allowance(address,address).owner (Coffee.sol#385) shadows:
        - Coffee.owner() (Coffee.sol#366-368) (function)
Coffee._approve(address,address,uint256).owner (Coffee.sol#402) shadows:
        - Coffee.owner() (Coffee.sol#366-368) (function)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing
INFO:Detectors:
Coffee.swapTriggerCount(uint256) (Coffee.sol#269-271) should emit an event for:
        - swapTrigger = Transaction_Count + 1 (Coffee.sol#270)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#missing-events-arithmetic
INFO:Detectors:
Coffee.constructor(string,string,uint256,uint256,address)._OwnerWallet (Coffee.sol#92) lacks a zero-check on :
                - _owner = _OwnerWallet (Coffee.sol#101)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#missing-zero-address-validation
INFO:Detectors:
Reentrancy in Coffee.Open_Trade() (Coffee.sol#226-251):
        External calls:
        - uniswapV2Pair = IUniswapV2Factory(uniswapV2Router.factory()).createPair(address(this),uniswapV2Router.WETH()) (Coffee.sol#237)
        State variables written after the call(s):
        - _excluded.push(uniswapV2Pair) (Coffee.sol#249)
        - _isExcludedFromRewards[uniswapV2Pair] = true (Coffee.sol#248)
        - _isLimitExempt[uniswapV2Pair] = true (Coffee.sol#243)
        - _isPair[uniswapV2Pair] = true (Coffee.sol#242)
        - _tOwned[uniswapV2Pair] = tokenFromReflection(_rOwned[uniswapV2Pair]) (Coffee.sol#246)
Reentrancy in Coffee._transfer(address,address,uint256) (Coffee.sol#445-482):
        External calls:
        - processFees(contractTokens) (Coffee.sol#474)
                - (SendSuccess,None) = address(_to).call{value: _amount}() (Coffee.sol#440)
                - uniswapV2Router.addLiquidityETH{value: BNBAmount}(address(this),tokenAmount,0,0,Wallet_Liquidity,block.timestamp) (Coffee.sol#522-529)
                - uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (Coffee.sol#512-518)
        - processFees(max_Tran) (Coffee.sol#476)
                - (SendSuccess,None) = address(_to).call{value: _amount}() (Coffee.sol#440)
                - uniswapV2Router.addLiquidityETH{value: BNBAmount}(address(this),tokenAmount,0,0,Wallet_Liquidity,block.timestamp) (Coffee.sol#522-529)
                - uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (Coffee.sol#512-518)
        External calls sending eth:
        - processFees(contractTokens) (Coffee.sol#474)
                - (SendSuccess,None) = address(_to).call{value: _amount}() (Coffee.sol#440)
                - uniswapV2Router.addLiquidityETH{value: BNBAmount}(address(this),tokenAmount,0,0,Wallet_Liquidity,block.timestamp) (Coffee.sol#522-529)
        - processFees(max_Tran) (Coffee.sol#476)
                - (SendSuccess,None) = address(_to).call{value: _amount}() (Coffee.sol#440)
                - uniswapV2Router.addLiquidityETH{value: BNBAmount}(address(this),tokenAmount,0,0,Wallet_Liquidity,block.timestamp) (Coffee.sol#522-529)
        State variables written after the call(s):
        - _tokenTransfer(from,to,amount,takeFee) (Coffee.sol#481)
                - _tFeeTotal += tReflect (Coffee.sol#573)
        - _tokenTransfer(from,to,amount,takeFee) (Coffee.sol#481)
```

```
INFO:Detectors:
Reentrancy in Coffee._transfer(address,address,uint256) (Coffee.sol#445-482):
        External calls:
        - processFees(contractTokens) (Coffee.sol#474)
                - (SendSuccess,None) = address(_to).call{value: _amount}() (Coffee.sol#440)
                - uniswapV2Router.addLiquidityETH{value: BNBAmount}(address(this),tokenAmount,0,0,Wallet_Liquidity,block.timestamp) (Coffee.sol#522-529)
                - uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (Coffee.sol#512-518)
        - processFees(max_Tran) (Coffee.sol#476)
                - (SendSuccess,None) = address(_to).call{value: _amount}() (Coffee.sol#440)
                - uniswapV2Router.addLiquidityETH{value: BNBAmount}(address(this),tokenAmount,0,0,Wallet_Liquidity,block.timestamp) (Coffee.sol#522-529)
                - uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (Coffee.sol#512-518)
        External calls sending eth:
        - processFees(contractTokens) (Coffee.sol#474)
                - (SendSuccess,None) = address(_to).call{value: _amount}() (Coffee.sol#440)
                - uniswapV2Router.addLiquidityETH{value: BNBAmount}(address(this),tokenAmount,0,0,Wallet_Liquidity,block.timestamp) (Coffee.sol#522-529)
        - processFees(max_Tran) (Coffee.sol#476)
                - (SendSuccess,None) = address(_to).call{value: _amount}() (Coffee.sol#440)
                - uniswapV2Router.addLiquidityETH{value: BNBAmount}(address(this),tokenAmount,0,0,Wallet_Liquidity,block.timestamp) (Coffee.sol#522-529)
        Event emitted after the call(s):
        - Transfer(sender,recipient,tTransferAmount) (Coffee.sol#570)
                - _tokenTransfer(from,to,amount,takeFee) (Coffee.sol#481)
        - Transfer(sender,address(this),tSwapFeeTotal) (Coffee.sol#578)
                - _tokenTransfer(from,to,amount,takeFee) (Coffee.sol#481)
        - Transfer(sender,Wallet_Burn,tBurn) (Coffee.sol#590)
                - _tokenTransfer(from,to,amount,takeFee) (Coffee.sol#481)
Reentrancy in Coffee.processFees(uint256) (Coffee.sol#483-506):
        External calls:
        - swapTokensForBNB(Swap_Tokens) (Coffee.sol#490)
                - uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (Coffee.sol#512-518)
        - send_BNB(0x62A04E224eB07c4A0aa2F97c487b260FBffBDeA1,creatorFee) (Coffee.sol#494)
                - (SendSuccess,None) = address(_to).call{value: _amount}() (Coffee.sol#440)
        - addLiquidity(LP_Tokens,BNB_Liquidity) (Coffee.sol#497)
                - uniswapV2Router.addLiquidityETH{value: BNBAmount}(address(this),tokenAmount,0,0,Wallet_Liquidity,block.timestamp) (Coffee.sol#522-529)
        External calls sending eth:
        - send_BNB(0x62A04E224eB07c4A0aa2F97c487b260FBffBDeA1,creatorFee) (Coffee.sol#494)
                - (SendSuccess,None) = address(_to).call{value: _amount}() (Coffee.sol#440)
        - addLiquidity(LP_Tokens,BNB_Liquidity) (Coffee.sol#497)
                - uniswapV2Router.addLiquidityETH{value: BNBAmount}(address(this),tokenAmount,0,0,Wallet_Liquidity,block.timestamp) (Coffee.sol#522-529)
        Event emitted after the call(s):
        - Approval(owner,spender,amount) (Coffee.sol#406)
                - addLiquidity(LP_Tokens,BNB_Liquidity) (Coffee.sol#497)
        - SwapAndLiquify(LP_Tokens,BNB_Liquidity,LP_Tokens) (Coffee.sol#498)
Reentrancy in Coffee.transferFrom(address,address,uint256) (Coffee.sol#432-438):
        External calls:
        - _transfer(sender,recipient,amount) (Coffee.sol#433)
                - (SendSuccess,None) = address(_to).call{value: _amount}() (Coffee.sol#440)
                - uniswapV2Router.addLiquidityETH{value: BNBAmount}(address(this),tokenAmount,0,0,Wallet_Liquidity,block.timestamp) (Coffee.sol#522-529)
                - uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (Coffee.sol#512-518)
        External calls sending eth:
```

STATIC ANALYSIS

```
INFO:Detectors:
Coffee.Rewards_Include_Wallet(address) (Coffee.sol#321-332) has costly operations inside a loop:
        - _excluded.pop() (Coffee.sol#328)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#costly-operations-inside-a-loop
INFO:Detectors:
Coffee._tokenTransfer(address,address,uint256,bool) (Coffee.sol#532-593) has a high cyclomatic complexity (13).
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#cyclomatic-complexity
INFO:Detectors:
Pragma version^0.8.19 (Coffee.sol#6) necessitates a version too recent to be trusted. Consider deploying with 0.8.18.
solc-0.8.19 is not recommended for deployment
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity
INFO:Detectors:
Low level call in Coffee.send_BNB(address,uint256) (Coffee.sol#439-441):
        - (SendSuccess,None) = address(_to).call{value: _amount}() (Coffee.sol#440)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-calls
INFO:Detectors:
Function IUniswapV2Router02.WETH() (Coffee.sol#27) is not in mixedCase
Event Coffee.updated_Wallet_Limits(uint256,uint256) (Coffee.sol#120) is not in CapWords
Event Coffee.updated_Buy_fees(uint8,uint8,uint8,uint8) (Coffee.sol#121) is not in CapWords
Event Coffee.updated_Sell_fees(uint8,uint8,uint8,uint8) (Coffee.sol#122) is not in CapWords
Event Coffee.updated_SwapAndLiquify_Enabled(bool) (Coffee.sol#123) is not in CapWords
Function Coffee.Project_Information() (Coffee.sol#150-179) is not in mixedCase
Function Coffee.Set_Presale_CA(address) (Coffee.sol#180-184) is not in mixedCase
Parameter Coffee.Set_Presale_CA(address).Presale_CA (Coffee.sol#180) is not in mixedCase
Function Coffee.Set_Fees(uint8,uint8,uint8,uint8,uint8,uint8,uint8,uint8) (Coffee.sol#185-209) is not in mixedCase
Parameter Coffee.Set_Fees(uint8,uint8,uint8,uint8,uint8,uint8,uint8,uint8).Marketing_on_BUY (Coffee.sol#186) is not in mixedCase
Parameter Coffee.Set_Fees(uint8,uint8,uint8,uint8,uint8,uint8,uint8,uint8).Liquidity_on_BUY (Coffee.sol#187) is not in mixedCase
Parameter Coffee.Set_Fees(uint8,uint8,uint8,uint8,uint8,uint8,uint8,uint8).Reflection_on_BUY (Coffee.sol#188) is not in mixedCase
Parameter Coffee.Set_Fees(uint8,uint8,uint8,uint8,uint8,uint8,uint8,uint8).Burn_on_BUY (Coffee.sol#189) is not in mixedCase
Parameter Coffee.Set_Fees(uint8,uint8,uint8,uint8,uint8,uint8,uint8,uint8).Marketing_on_SELL (Coffee.sol#190) is not in mixedCase
Parameter Coffee.Set_Fees(uint8,uint8,uint8,uint8,uint8,uint8,uint8,uint8).Liquidity_on_SELL (Coffee.sol#191) is not in mixedCase
Parameter Coffee.Set_Fees(uint8,uint8,uint8,uint8,uint8,uint8,uint8,uint8).Reflection_on_SELL (Coffee.sol#192) is not in mixedCase
Parameter Coffee.Set_Fees(uint8,uint8,uint8,uint8,uint8,uint8,uint8,uint8).Burn_on_SELL (Coffee.sol#193) is not in mixedCase
Function Coffee.Set_Wallet_Limits(uint256,uint256) (Coffee.sol#210-225) is not in mixedCase
Parameter Coffee.Set_Wallet_Limits(uint256,uint256).Max_Transaction_Percent (Coffee.sol#211) is not in mixedCase
Parameter Coffee.Set_Wallet_Limits(uint256,uint256).Max_Wallet_Percent (Coffee.sol#212) is not in mixedCase
Function Coffee.Open_Trade() (Coffee.sol#226-251) is not in mixedCase
Parameter Coffee.addLiquidityPair(address,bool).Wallet_Address (Coffee.sol#253) is not in mixedCase
Parameter Coffee.addLiquidityPair(address,bool).true_or_false (Coffee.sol#254) is not in mixedCase
Parameter Coffee.burnFromTotalSupply(bool).true_or_false (Coffee.sol#259) is not in mixedCase
Parameter Coffee.noFeeWalletTransfers(bool).true_or_false (Coffee.sol#262) is not in mixedCase
Parameter Coffee.swapAndLiquifySwitch(bool).true_or_false (Coffee.sol#265) is not in mixedCase
Parameter Coffee.swapTriggerCount(uint256).Transaction_Count (Coffee.sol#269) is not in mixedCase
Parameter Coffee.swapAndLiquifyNow(uint256).Percent_of_Tokens_to_Process (Coffee.sol#272) is not in mixedCase
Parameter Coffee.rescueTrappedTokens(address,uint256).random_Token_Address (Coffee.sol#280) is not in mixedCase
Parameter Coffee.rescueTrappedTokens(address,uint256).number_of_Tokens (Coffee.sol#281) is not in mixedCase
Function Coffee.Update_Links_LP_Lock(string) (Coffee.sol#286-290) is not in mixedCase
Parameter Coffee.Update_Links_LP_Lock(string).LP_Lock_URL (Coffee.sol#287) is not in mixedCase
Function Coffee.Update_Links_Telegram(string) (Coffee.sol#291-295) is not in mixedCase
Parameter Coffee.Update_Links_Telegram(string).Telegram_Group (Coffee.sol#292) is not in mixedCase
```

```
INFO:Detectors:
Variable IUniswapV2Router02.addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256).amountADesired (Coffee.sol#31) is too similar to IUniswapV2Router02.addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256).amountBDesired (Coffee.sol#32)
Variable Coffee.Project_Information().Owner_Wallet (Coffee.sol#150) is too similar to Coffee.constructor(string,string,uint256,uint256,address)._OwnerWallet (Coffee.sol#92)
Variable Coffee._tokenTransfer(address,address,uint256,bool).rSwapFeeTotal (Coffee.sol#555) is too similar to Coffee._tokenTransfer(address,address,uint256,bool).tSwapFeeTotal (Coffee.sol#534)
Variable Coffee._tokenTransfer(address,address,uint256,bool).rTransferAmount (Coffee.sol#556) is too similar to Coffee._tokenTransfer(address,address,uint256,bool).tTransferAmount (Coffee.sol#550)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#variable-names-too-similar
INFO:Detectors:
Loop condition i < _excluded.length (Coffee.sol#420) should use cached array length instead of referencing `length` member of the storage array.
 Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#cache-array-length
INFO:Detectors:
Coffee._decimals (Coffee.sol#66) should be immutable
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable
INFO:Slither:Coffee.sol analyzed (7 contracts with 93 detectors), 107 result(s) found
```

FUNCTIONAL TESTING

1- Approve (passed):

https://testnet.bscscan.com/tx/0xf4a5e501c1c23de2702c6483d3b27100b97536e53820d95e7877c183e3741f6f

2- Increase Allowance (passed):

https://testnet.bscscan.com/tx/0xcaf03f3729e16c127d7a307cc8382f34deae29524268ba2399d851b53785f85f

3- Decrease Allowance (passed):

https://testnet.bscscan.com/tx/0x23de0ebc38f32f31ce808a5e7e26d6010ba71249a5c047b7d1ca25d3cef0297f

4- Rewards Exclude Wallet (passed):

https://testnet.bscscan.com/tx/0xdfc6d73ee9314f52f7f04ece09afc5ac93f1bfc5faf67a7b5f2c9b71dfeae983

5- Rewards Include Wallet (passed):

https://testnet.bscscan.com/tx/0x911ca94a19131ce29193ced0165c43b76283fe9258c316790aae5459e5dc2a57

FUNCTIONAL TESTING

6- Set Fees (passed):

https://testnet.bscscan.com/tx/0xa2fc1b4c9d382b8dbef108bdfe537201356a09c2ad81ad81b4266f81d179391e

7- Set Wallet Limits (passed):

https://testnet.bscscan.com/tx/0xee91ead6007171f43af209b92d119958d403d96c1d52f2a3c1f7ebbc6842a7b6

MANUAL TESTING

Centralization – Enabling Trades

Severity: High

function: Enabling Trades

Status: Open

Overview:
The **EnableTrading** function permits only the contract owner to activate trading capabilities. Until this function is executed, no investors can buy, sell, or transfer their tokens. This places a high degree of control and centralization in the hands of the contract owner.

```
function Open_Trade() external onlyOwner {
require(!Trade_Open, "TradeOpen");
   feeProcessingEnabled = true;
   Trade_Open = true;
```

Suggestion:
To reduce centralization and potential manipulation, consider one of the following approaches:

1. Automatically enable trading after a specified condition, such as the completion of a presale, is met.

2. If manual activation is still desired, consider transferring the ownership of the contract to a trustworthy, third-party entity like a certified "PinkSale Safu" developer. This can give investors more confidence in the eventual activation of trading capabilities, mitigating concerns of potential bad-faith actions by the original owner.

MANUAL TESTING

Centralization – Liquidity is added to EOA

Severity: Medium

function: addLiquidity

Status: Open

Overview:

Liquidity is adding to EOA. It may be drained by the Wallet_Liquidity.

```
function addLiquidity(uint256 tokenAmount, uint256 BNBAmount)
private {
    _approve(address(this), address(uniswapV2Router), tokenAmount);
    uniswapV2Router.addLiquidityETH{value: BNBAmount}(
        address(this),
        tokenAmount,
        0,
        0,
        Wallet_Liquidity,
        block.timestamp
    );
}
```

Suggestion:

It is suggested that the address should be a contract address or a dead address.

MANUAL TESTING

Centralization – Missing Require Check

Severity: Medium

function: Update_Wallet_Marketing

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 Update_Wallet_Marketing(
      address payable Marketing_Wallet
      ) external onlyOwner {
      require(Marketing_Wallet != address(0), "E08");
      Wallet_Marketing = payable(Marketing_Wallet);
 }
```

Suggestion:

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

MANUAL TESTING

Centralization - Missing Events

Severity: Low

subject: Missing Events

Status: Open

Overview:

They serve as a mechanism for emitting and recording data onto the blockchain, making it transparent and easily accessible.

```
function swapTriggerCount(uint256 Transaction_Count) external onlyOwner {
    swapTrigger = Transaction_Count + 1;
 }
function burnFromTotalSupply(bool true_or_false) external onlyOwner {
    burnFromSupply = true_or_false;
 }
function noFeeWalletTransfers(bool true_or_false) external onlyOwner {
    no_Fee_Transfers = true_or_false;
  }
 function Update_Wallet_Liquidity(
    address Liquidity_Collection_Wallet
   ) external onlyOwner {
   require(Liquidity_Collection_Wallet != address(0), "E07");
  Wallet_Liquidity = Liquidity_Collection_Wallet;
 }
 function Update_Wallet_Marketing(
  address payable Marketing_Wallet
  ) external onlyOwner {
  require(Marketing_Wallet != address(0), "E08");
  Wallet_Marketing = payable(Marketing_Wallet);
 }
```

MANUAL TESTING

Centralization – Missing Zero Address

Severity: Low

Subject: Zero address

Status: Open

Overview:

functions can take a zero address as a parameter (0x00000...). If a function parameter of address type is not properly validated by checking for zero addresses, there could be serious consequences for the contract's functionality.

```
function addLiquidityPair(
    address Wallet_Address,
    bool true_or_false)
    external onlyOwner {
   _isPair[Wallet_Address] = true_or_false;
   _isLimitExempt[Wallet_Address] = true_or_false;
 }
```

Suggestion:

It is suggested that the address should not be zero or dead.

MANUAL TESTING

Centralization – Local Variable Shadowing

Severity: Low

subject: Shadowing Local

Status: Open

Overview:

```
function allowance(address owner, address spender) public view override
returns (uint256) {
        return _allowances[owner][spender];
 }
function _approve(address owner, address spender, uint256 amount) private {
        require(owner != address(0), "BEP20: approve from the zero address");
        require(spender != address(0), "BEP20: approve to the zero address");
        _allowances[owner][spender] = amount;
        emit Approval(owner, spender, amount);
 }
```

Suggestion:

Rename the local variable that shadows another component.

MANUAL TESTING

Optimization

Severity: Informational

subject: Floating Pragma

Status: Open

Overview:

It is considered best practice to pick one compiler version and stick with it. With a floating pragma, contracts may accidentally be deployed using an outdated.

pragma solidity pragma solidity ^0.8.19;

Suggestion:

Adding the latest constant version of solidity is recommended, as this prevents the unintentional deployment of a contract with an outdated compiler that contains unresolved bugs.

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. It is the best practice. though to avoid them.

```
event LiquidityAdded(uint256 Tokens_Amount, uint256 BNB_Amount);
```

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