auditace.tech

AuditAce

FROM INCEPTION TO SUCCESS

Smart Contract Audit

FOR

Dominator Domain

DATED : 20 MAR 23'

AUDIT SUMMARY

Project name – Dominator Domain

Date: 20 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	1	0	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 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: all tests were done using this contract, tests are done on BSC Testnet

https://testnet.bscscan.com/address/0xBa590cb3400e1d0355bdaA9D435700b57D3AeB1b#code

Token Information

Token Name : Dominator Domain

Token Symbol: DomDom

Decimals: 18

Token Supply: 500,000,000

Token Address:
0x635d0e13f98e107Cf6C5cDFbF52C19843F87e76a

Checksum:
7539e92eafdc416f8c4d4550dec56f40ed0ef55b

Owner:
0x5E12DE4284670cF35eF793A27042A805B36aE848

Deployer:
0x8134b687be5752eFF8361B663030420D47648bfF

TOKEN OVERVIEW

Fees:

Buy Fees: 0%

Sell Fees: 3%

Transfer Fees: 0%

Fees Privilige: None

Ownership : Owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Priviliges: Including in fee - excluding from fee

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

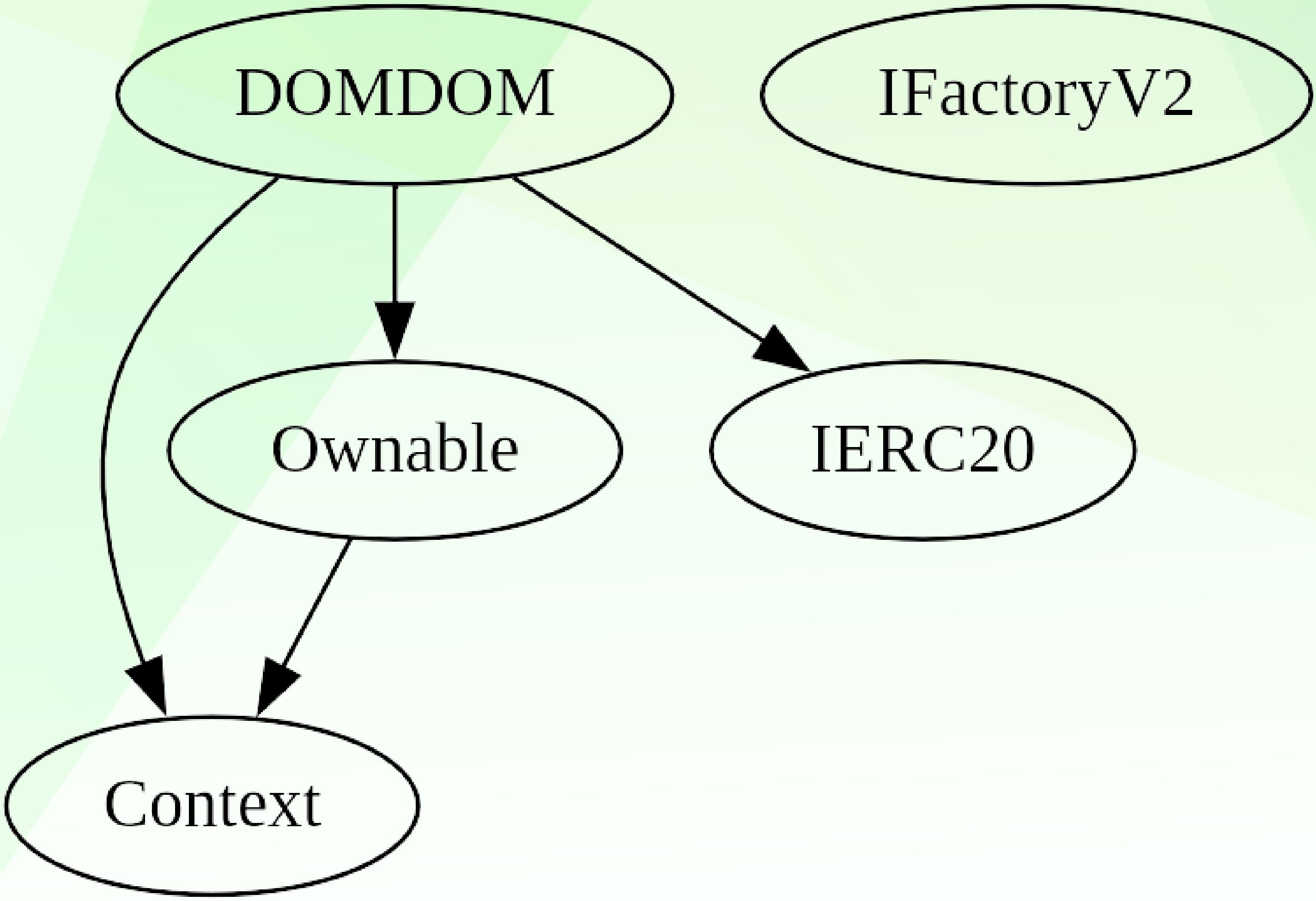
CLASSIFICATION OF RISK

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	0
◆ Low-Risk	0
◆ Gas Optimization / Suggestions	2

INHERITANCE TREE



POINTS TO NOTE

- **Owner must enable trading for investors**
- Owner is able to change buy/sell fees up to 3% each one (0% transfer fee)
- 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 ASSESMENT

```
| Contract | Type | Bases | | |
|:----------:|:-------------------:|:----------------:|:----------------:|:---------------:|
| └ | **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
||||||
| **Context** | Implementation | |||
| └ | <Constructor> | Public ❗ | 🛑 |NO❗ |
| └ | _msgSender | Internal 🔒 | | |
| └ | _msgData | Internal 🔒 | | |
||||||
| **Ownable** | Implementation | Context |||
| └ | <Constructor> | Public ❗ | 🛑 |NO❗ |
| └ | owner | Public ❗ | |NO❗ |
| └ | renounceOwnership | Public ❗ | 🛑 | onlyOwner |
| └ | transferOwnership | Public ❗ | 🛑 | onlyOwner |
| └ | _setOwner | Private 🔐 | 🛑 | |
||||||
| **IFactoryV2** | Interface | |||
| └ | getPair | External ❗ | |NO❗ |
| └ | createPair | External ❗ | 🛑 |NO❗ |
||||||
| **IV2Pair** | Interface | |||
| └ | factory | External ❗ | |NO❗ |
| └ | getReserves | External ❗ | |NO❗ |
| └ | sync | External ❗ | 🛑 |NO❗ |
||||||
| **IRouter01** | Interface | |||
| └ | factory | External ❗ | |NO❗ |
| └ | WETH | External ❗ | |NO❗ |
| └ | addLiquidityETH | External ❗ | 💵 |NO❗ |
| └ | addLiquidity | External ❗ | 🛑 |NO❗ |
| └ | swapExactETHForTokens | External ❗ | 💵 |NO❗ |
| └ | getAmountsOut | External ❗ | |NO❗ |
| └ | getAmountsIn | External ❗ | |NO❗ |
||||||
| **IRouter02** | Interface | IRouter01 |||
| └ | swapExactTokensForETHSupportingFeeOnTransferTokens | External ❗ | 🛑 |NO❗ |
| └ | swapExactETHForTokensSupportingFeeOnTransferTokens | External ❗ | 💵 |NO❗ |
| └ | swapExactTokensForTokensSupportingFeeOnTransferTokens | External ❗ | 🛑 |NO❗ |
| └ | swapExactTokensForTokens | External ❗ | 🛑 |NO❗ |
```

CONTRACT ASSESMENT

```
||||||
| **IERC20** | Interface |  |||
| └ | totalSupply | External ❗️ |   |NO❗️ |
| └ | decimals | External ❗️ |   |NO❗️ |
| └ | symbol | External ❗️ |   |NO❗️ |
| └ | name | External ❗️ |   |NO❗️ |
| └ | getOwner | External ❗️ |   |NO❗️ |
| └ | balanceOf | External ❗️ |   |NO❗️ |
| └ | transfer | External ❗️ | 🛑  |NO❗️ |
| └ | allowance | External ❗️ |   |NO❗️ |
| └ | approve | External ❗️ | 🛑  |NO❗️ |
| └ | transferFrom | External ❗️ | 🛑  |NO❗️ |
||||||
| **DOMDOM** | Implementation | Context, Ownable, IERC20 |||
| └ | totalSupply | External ❗️ |   |NO❗️ |
| └ | decimals | External ❗️ |   |NO❗️ |
| └ | symbol | External ❗️ |   |NO❗️ |
| └ | name | External ❗️ |   |NO❗️ |
| └ | getOwner | External ❗️ |   |NO❗️ |
| └ | allowance | External ❗️ |   |NO❗️ |
| └ | balanceOf | Public ❗️ |   |NO❗️ |
| └ | <Constructor> | Public ❗️ | 🛑  |NO❗️ |
| └ | <Receive Ether> | External ❗️ | 💵 |NO❗️ |
| └ | transfer | Public ❗️ | 🛑  |NO❗️ |
| └ | approve | External ❗️ | 🛑  |NO❗️ |
| └ | _approve | Internal 🔒 | 🛑  | |
| └ | transferFrom | External ❗️ | 🛑  |NO❗️ |
| └ | isNoFeeWalelt | External ❗️ |   |NO❗️ |
| └ | setNoFeeWallet | Public ❗️ | 🛑  | onlyOwner |
| └ | isLimitedAddress | Internal 🔒 |   | |
| └ | is_buy | Internal 🔒 |   | |
| └ | is_sell | Internal 🔒 |   | |
| └ | is_transfer | Internal 🔒 |   | |
| └ | canSwap | Internal 🔒 |   | |
| └ | changeLpPair | External ❗️ | 🛑  | onlyOwner |
| └ | _transfer | Internal 🔒 | 🛑  | |
| └ | _basicTransfer | Internal 🔒 | 🛑  | |
| └ | changeWallets | External ❗️ |  💵 | onlyOwner |
| └ | takeTaxes | Internal 🔒 | 🛑  | |
| └ | internalSwap | Internal 🔒 | 🛑  | inSwapFlag |
| └ | updateBuyFeeAmount | External ❗️ | 🛑  | onlyOwner |
```

CONTRACT ASSESMENT

└	updateSellFeeAmount	External ❗	🛑	onlyOwner
└	setPresaleAddress	External ❗	🛑	onlyOwner
└	enableTrading	External ❗	🛑	onlyOwner
└	rescueETH	External ❗	🛑	onlyOwner
└	rescueERC20	External ❗	🛑	onlyOwner

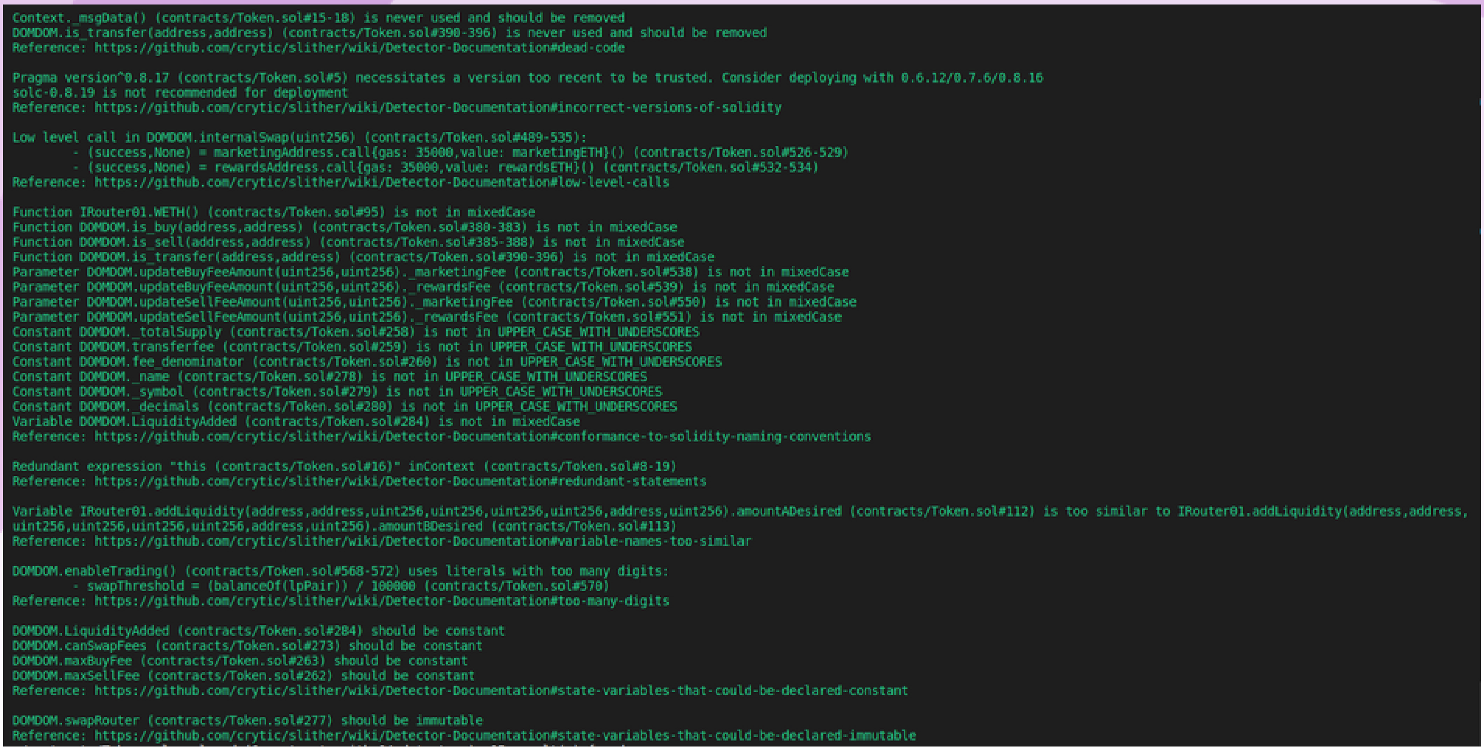
Legend

Symbol	Meaning
🛑	Function can modify state
💵	Function is payable

TOKEN DISTRIBUTION

It should be noted that the owner currently holds 100% of the total supply. However, information about the distribution of these tokens is not available, and it is recommended that investors exercise caution when considering this aspect.

STATIC ANALYSIS



```
Context._msgData() (contracts/Token.sol#15-18) is never used and should be removed
DOMDOM.is_transfer(address,address) (contracts/Token.sol#390-396) is never used and should be removed
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code

Pragma version^0.8.17 (contracts/Token.sol#5) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6/0.8.16
solc-0.8.19 is not recommended for deployment
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity

Low level call in DOMDOM.internalSwap(uint256) (contracts/Token.sol#489-535):
        - (success,None) = marketingAddress.call{gas: 35000,value: marketingETH}() (contracts/Token.sol#526-529)
        - (success,None) = rewardsAddress.call{gas: 35000,value: rewardsETH}() (contracts/Token.sol#532-534)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-calls

Function IRouter01.WETH() (contracts/Token.sol#95) is not in mixedCase
Function DOMDOM.is_buy(address,address) (contracts/Token.sol#380-383) is not in mixedCase
Function DOMDOM.is_sell(address,address) (contracts/Token.sol#385-388) is not in mixedCase
Function DOMDOM.is_transfer(address,address) (contracts/Token.sol#390-396) is not in mixedCase
Parameter DOMDOM.updateBuyFeeAmount(uint256,uint256)._marketingFee (contracts/Token.sol#538) is not in mixedCase
Parameter DOMDOM.updateBuyFeeAmount(uint256,uint256)._rewardsFee (contracts/Token.sol#539) is not in mixedCase
Parameter DOMDOM.updateSellFeeAmount(uint256,uint256)._marketingFee (contracts/Token.sol#550) is not in mixedCase
Parameter DOMDOM.updateSellFeeAmount(uint256,uint256)._rewardsFee (contracts/Token.sol#551) is not in mixedCase
Constant DOMDOM._totalSupply (contracts/Token.sol#258) is not in UPPER_CASE_WITH_UNDERSCORES
Constant DOMDOM.transferfee (contracts/Token.sol#259) is not in UPPER_CASE_WITH_UNDERSCORES
Constant DOMDOM.fee_denominator (contracts/Token.sol#260) is not in UPPER_CASE_WITH_UNDERSCORES
Constant DOMDOM._name (contracts/Token.sol#278) is not in UPPER_CASE_WITH_UNDERSCORES
Constant DOMDOM._symbol (contracts/Token.sol#279) is not in UPPER_CASE_WITH_UNDERSCORES
Constant DOMDOM._decimals (contracts/Token.sol#280) is not in UPPER_CASE_WITH_UNDERSCORES
Variable DOMDOM.LiquidityAdded (contracts/Token.sol#284) is not in mixedCase
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions

Redundant expression "this (contracts/Token.sol#16)" inContext (contracts/Token.sol#8-19)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#redundant-statements

Variable IRouter01.addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256).amountADesired (contracts/Token.sol#112) is too similar to IRouter01.addLiquidity(address,address,
uint256,uint256,uint256,uint256,address,uint256).amountBDesired (contracts/Token.sol#113)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#variable-names-too-similar

DOMDOM.enableTrading() (contracts/Token.sol#568-572) uses literals with too many digits:
        - swapThreshold = (balanceOf(lpPair)) / 100000 (contracts/Token.sol#570)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#too-many-digits

DOMDOM.LiquidityAdded (contracts/Token.sol#284) should be constant
DOMDOM.canSwapFees (contracts/Token.sol#273) should be constant
DOMDOM.maxBuyFee (contracts/Token.sol#263) should be constant
DOMDOM.maxSellFee (contracts/Token.sol#262) should be constant
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-constant

DOMDOM.swapRouter (contracts/Token.sol#277) should be immutable
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable
```

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

No issues found

FUNCTIONAL TESTING

Router (PCS V2):
0xD99D1c33F9fC3444f8101754aBC46c52416550D1

All the functionalities have been tested, no issues were found

1- Adding Liquidity (Passed):

https://testnet.bscscan.com/tx/0x968621d7b36003d16a04e5bfffa0cfb077a8da7069db9510c0383dd6706323e5

2- Buying when excluded from fees (0% tax)(Passed):

https://testnet.bscscan.com/tx/0xe9051e37b311d522ffaa046ae5eef19a0faf20cbb300f2b2b19c7b51a9e1f6d7

3- Selling when excluded from fees (0% tax)(Passed):

https://testnet.bscscan.com/tx/0x36940f8678133e2c76512a10aa735ddc2ae926ca289fa9be3b8c15087e0fdf86

4- Transferring when excluded from fees (0% tax) (passed):

https://testnet.bscscan.com/tx/0x4a8191ff5b6932e079f1eecbc60e3943de2b7d84442d53964e4b0e614ef71782

5- Buying when not excluded from fees (0% tax) (passed):

https://testnet.bscscan.com/tx/0xc13deb2256c88f6328dea4aa290a69848faa81db2c3252216d624073bddda27e

FUNCTIONAL TESTING

6- Selling when not excluded from fees (3% tax) (passed):

https://testnet.bscscan.com/tx/0xe2c9dd3aa1a12c79a7fee9691ba401d9f152ac95ac894396474241402f33cefe

7- Transferring when not excluded from fees (0% tax) (passed):

https://testnet.bscscan.com/tx/0xd2a891522f6f647de1cca5c61b73cc392203b5c692a59011fbbbc527f7b628aa

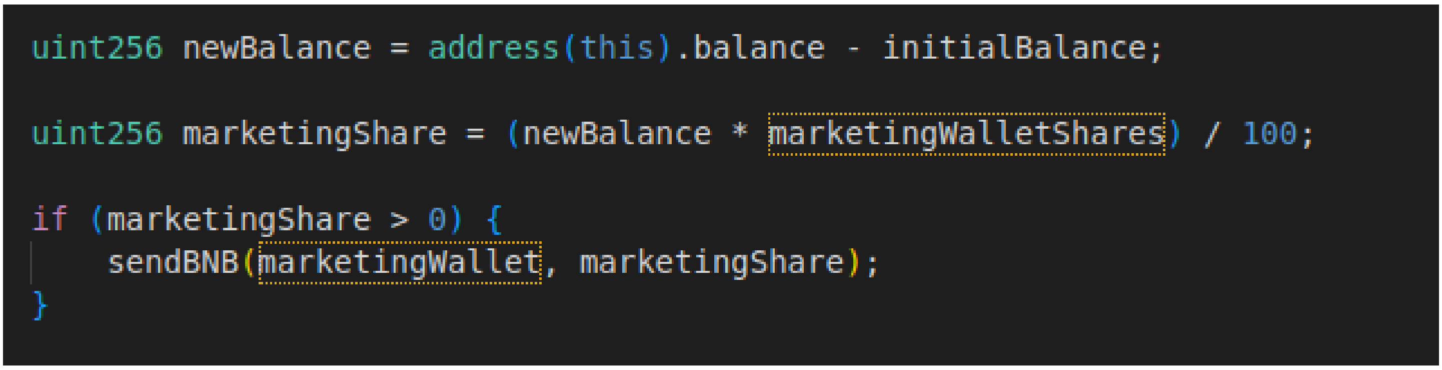
8- Internal swap (passed):

As can seen in this transaction, all the 3 fee wallets received BNB
https://testnet.bscscan.com/tx/0xe2c9dd3aa1a12c79a7fee9691ba401d9f152ac95ac894396474241402f33cefe

MANUAL TESTING

Centralization - Owner must enable trading

Severity: High
Function: enableTrading
Lines: 299-301
Status: not resolved
Overview:
The owner must activate trading for investors to buy, sell, or transfer tokens. If trading remains disabled, token holders will be unable to trade their tokens.



```
uint256 newBalance = address(this).balance - initialBalance;

uint256 marketingShare = (newBalance * marketingWalletShares) / 100;

if (marketingShare > 0) {
    sendBNB(marketingWallet, marketingShare);
}
```

Recommendation:
Incorporate a safety mechanism that allows investors to activate trading if a specified duration has elapsed since the conclusion of the presale.

MANUAL TESTING

Informative - Internal swap threshold

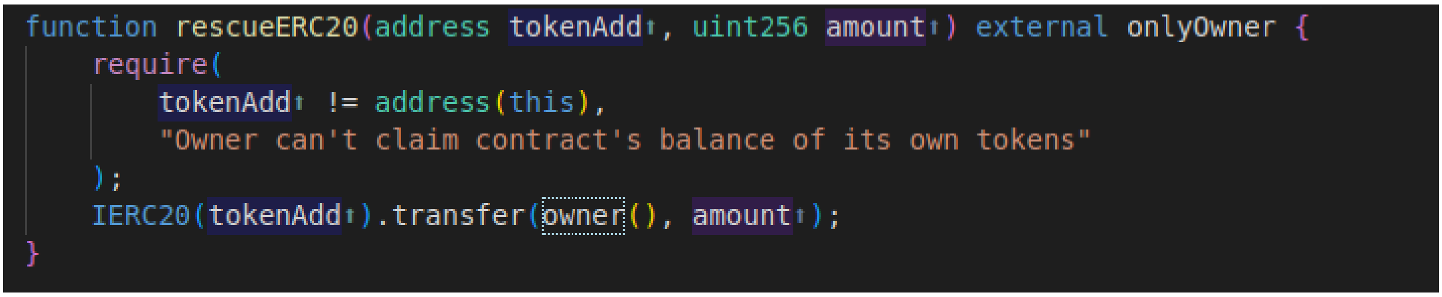
Severity: Informative
Function: --
Lines: --
Status: not resolved
Overview:
Current implemention of the contract doesn’t allow owner to change swap threshold, depending on market condition, liquidity pool size owner might need to change swap threshold accordingly.

Recommendation:
Create a function to be able to update swap threshold in a reasonable range

MANUAL TESTING

Informative - Rescuing native tokens

Severity: Informative
Function: rescueERC20
Lines: 423-426
Status: not resolved
Overview:
Currently rescueERC20 function doesn’t allow owner to withdraw native tokens. Adding this feature is suggested because removing tokens from contract doesn’t hurt trades or investors.



```
function rescueERC20(address tokenAdd, uint256 amount) external onlyOwner {
    require(
        tokenAdd != address(this),
        "Owner can't claim contract's balance of its own tokens"
    );
    IERC20(tokenAdd).transfer(owner(), amount);
}
```

Recommendation:
Allow native token withdrawals

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