

# Smart Contract Audit

**FOR** 

# **DOGE NEW**

**DATED: 09 Apr 23'** 



## **AUDIT SUMMARY**

Project name - Doge New

Date: 09 April, 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	1
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- Slither:** The code has undergone static analysis using Slither.



# **Token Information**

Token Name: DOGENEW

Token Symbol: DOGENEW

Decimals: 9

Token Supply: 420,000,000,000,000

#### Token Address:

0xB98ddD096917F9EEF591e69731cca0508De5F470

#### Checksum:

9bd464a05b50f5537ecc6c166c79d70f55339618

#### Owner:

0x0c1ED0Be0aA2780600436e51507d45f7523fa460 (at the time of audit)



# **TOKEN OVERVIEW**

Fees:

Buy Fees: up to 25%

Sell Fees: up to 25%

Transfer Fees: up to 25%

Fees Privilige: Owner

Ownership: Owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

**Blacklist: No** 

**Other Priviliges**: Including and excluding form fee - changing swap threshold - enabling trades - modifying fees



## **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.

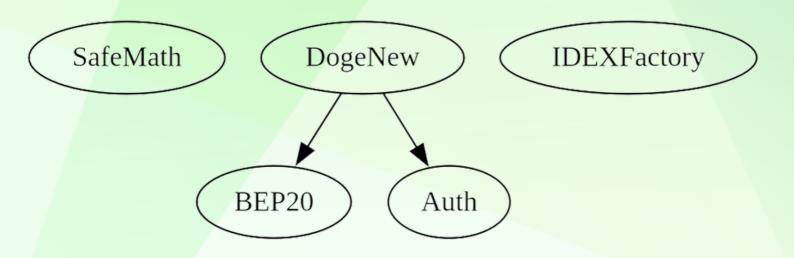
A vulnerability that has an informational character but is not affecting any of the code.

## **Findings**

Severity	Found
◆ Critical	0
♦ High-Risk	0
◆ Medium-Risk	0
◆ Low-Risk	0
<ul><li>Gas Optimization /</li><li>Suggestions</li></ul>	1



## **INHERITANCE TREE**





## **POINTS TO NOTE**

- Fees can not be more than 25% for buy/sell/transfers (each one can be up to 25%)
- 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
| **SafeMath** | Library | ||| | | |
| L | add | Internal 🔒 | | | |
| L | sub | Internal 🔒 | | |
| L | sub | Internal 🔒 | | |
| L | mul | Internal 🔒 | | |
| L | div | Internal 🔒 | | |
| L div | Internal 🔒 | | |
| **BEP20** | Interface | |||
| L | getOwner | External | | NO | |
| L | balanceOf | External | | NO | |
| L | allowance | External | | NO | |
| L | transferFrom | External | | | | NO | |
HHHH
| **Auth** | Implementation | ||| | | | |
| L | <Constructor> | Public | | | | NO | |
| L|isOwner|Public | | |NO | |
| L | isAuthorized | Public | | NO | |
| L | acceptOwnership | External | | | NO | |
| **IDEXFactory** | Interface | |||
| L | createPair | External | | | | NO | |
| **IDEXRouter** | Interface | |||
| L | factory | External | | NO | |
| L | WETH | External | | NO | |
| L | addLiquidityETH | External | | 💵 | NO 📗 |
| L | swapExactTokensForETHSupportingFeeOnTransferTokens | External | | | | | NO | |
ШШ
| **DogeNew** | Implementation | BEP20, Auth | | | | |
| L | <Constructor> | Public | | | | Auth |
| L | <Receive Ether> | External | | 💵 | NO | |
| L | getOwner | External | | NO | |
| L | allowance | External | | NO | |
```



## **CONTRACT ASSESMENT**

```
| L | setExcludedFromFees | Public | | | | onlyOwner | |
| | transfer | External | | | | NO | |
| | transferFrom | External | | | | NO | |
| L | _transferFrom | Internal 🔒 | 🛑 | |
| L | _basicTransfer | Internal 🔒 | 🛑 | |
| L | takeFee | Internal 🔒 | 🛑 | |
| L | shouldSwapBack | Internal 🔒 | | |
| Local | ClearStuckBalance | External | | ContyOwner |
| L | tradingStatus | External | | | | I onlyOwner |
| L | tradingStatus_launchmode | External | | 🛑 | onlyOwner |
| L | swapBack | Internal 🔒 | 🛑 | swapping |
Legend
| Symbol | Meaning |
|:-----|
| • | Function can modify state |
  | Function is payable |
```



## STATIC ANALYSIS

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

No major issues were found in the output



# **FUNCTIONAL TESTING**

The contract is a reliable and rigorously pre-audited token, produced by the PinkSale platform. Given that it is a standard token, we have not conducted any additional tests, as the generation process through PinkSale ensures its security and proper functioning.



## MANUAL TESTING

#### Centralization - Excessive fees

**Severity: Informational** 

Function: setLiquidityFeePercent - setCharityFeePercent - setTaxFeePercent

Lines: 1249 - 1260 - 1241

Status: Not Resolved

The owner has the capability to set buy, sell, and transfer fees up to 25% each, resulting in a potential combined tax of 50% for buy and sell transactions if the maximum limit is set for each fee.

```
function setLiquidityFeePercent(
  uint256 liquidityFeeBps
) external onlyOwner {
  _liquidityFee = liquidityFeeBps;
  require(
    _taxFee + _liquidityFee + _charityFee <= MAX_FEE,
    "Total fee is over 25%"
  );
}
function setCharityFeePercent(uint256 charityFeeBps) external onlyOwner {
  _charityFee = charityFeeBps;
  require(
    _taxFee + _liquidityFee + _charityFee <= MAX_FEE,
    "Total fee is over 25%"
  );
}
function setTaxFeePercent(uint256 taxFeeBps) external onlyOwner {
  _taxFee = taxFeeBps;
  require(
    _taxFee + _liquidityFee + _charityFee <= MAX_FEE,
    "Total fee is over 25%"
  );
}
```



## **MANUAL TESTING**

#### **Recommendation:**

order to be compliant with PinkSale's SAFU criteria, the total sum of buy and sell fees should not exceed 25%. It is recommended to modify the code to ensure that this requirement is met.



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