



# AUDIT REPORT

SecureWise

**BABYDOGE 2.1 (BABYDOGE2.1)**



# Quick Result

Quick Result	Status
Owner can mint new token?	Not Detected
Owner can update tax over 25% ?	Not Detected
Owner can pause trade ?	Not Detected
Owner can enable trading ?	Not Detected
Owner can add Blacklist ?	Not Detected
Owner can set Max Tx ?	Not Detected
Owner can set Max Wallet Amount ?	Not Detected
KYC ?	No KYC

Page 6,10 for more details

Babydoge 2.1 (Babydoge2.1) as **PASSED** the smart contract audit.

# Findings

Risk Classification	Description
High	Exploits, vulnerabilities or errors that will certainly or probabilistically lead towards loss of funds, control, of the contract and its functions. Must be fixed as soon as possible.
Medium	Bugs or issues with that may be subject to exploit, though their impact is somewhat limited. Must be fixed as soon as possible.
Low	Effects are minimal in isolation and do not pose a significant danger to the project or its users. Issues under this classification are recommended to be fixed nonetheless.
Informational	A vulnerability that have informational character but is not effecting any of the code

Severity	Found	Pending	Resolved
High	0	0	0
Medium	0	0	0
Low	0	0	0
Informational	4	0	0
Total	4	0	0

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# Overview

**Token Name:** Babydoge 2.1 (**Babydoge2.1**)

**Language:** Solidity

**Contract Address:** 0x9671c60622eac64330486066460593db6aAF7B88

**Network:** Binance Smart Chain

**Total Supply:** 4206900000000000

**KYC:** No KYC

**Website:** <https://babydoge2023.great-site.net>

**Twitter:** –

**Telegram:** [https://t.me/babydoge2\\_1](https://t.me/babydoge2_1)

**Report Date:** July 13, 2023

**Testnet:**

<https://testnet.bscscan.com/address/0x9d116B18697aCFa8cdd8CC74f493032eF773544a>

# Auditing Approach and Methodologies

SecureWise has performed starting with analyzing the code, issues, code quality, and libraries. Reviewed line-by-line by our team. Finding any potential issue like race conditions, transaction-ordering dependence, timestamp dependence, and denial of service attacks.

## Methodology

- Understanding the size, scope and functionality of your project's source code
- Manual review of code, which is the process of reading source code line-by-line in an attempt to identify potential vulnerabilities.
- Testing and automated analysis of the Smart Contract to determine proper logic has been followed throughout the whole process
- Deploying the code on testnet using multiple live test
- Analyzing a program to determine the specific input that causes different parts of a program to execute its functions.
- Checking whether all the libraries used in the code are on the latest version.

## Goals

Smart Contract System is secure, resilient and working according to the specifications and without any vulnerabilities.

## Risk Classification

**High:** Exploits, vulnerabilities or errors that will certainly or probabilistically lead towards loss of funds, control, of the contract and its functions. Must be fixed as soon as possible.

**Medium:** Bugs or issues with that may be subject to exploit, though their impact is somewhat limited. Must be fixed as soon as possible.





**Low:** Effects are minimal in isolation and do not pose a significant danger to the project or its users. Issues under this classification are recommended to be fixed nonetheless.

**Informational:** A vulnerability that have informational character but is not affecting any of the code

# Findings Summary

SecureWise has applied the automated and manual analysis of Smart Contract and were reviewed for common contract vulnerabilities and centralized exploits

## Findings

	Owner has the authority to exclude account from dividend
	Owner has the authority to exclude account from fees
	Owner has authority to change settings
	Owner has authority to claim stuck tokens

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**Babydoge 2.1 (Babydoge2.1) as PASSED the smart contract audit.**

# Function Privileges

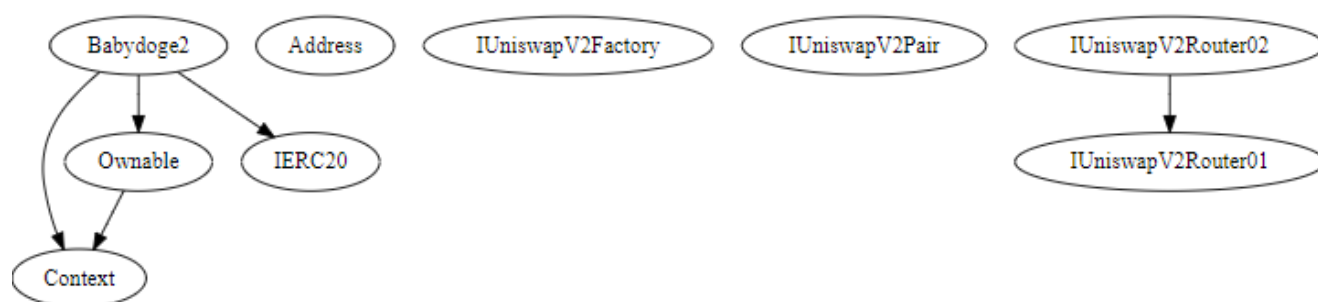
```

**Babydoge2** | Implementation | Context, IERC20, Ownable |||
| <Constructor> | Public ! | ● | NO ! |
| name | Public ! | | NO ! |
| symbol | Public ! | | NO ! |
| decimals | Public ! | | NO ! |
| totalSupply | Public ! | | NO ! |
| balanceOf | Public ! | | NO ! |
| transfer | Public ! | ● | NO ! |
| allowance | Public ! | | NO ! |
| approve | Public ! | ● | NO ! |
| transferFrom | Public ! | ● | NO ! |
| increaseAllowance | Public ! | ● | NO ! |
| decreaseAllowance | Public ! | ● | NO ! |
| isExcludedFromReward | Public ! | | NO ! |
| totalReflectionDistributed | Public ! | | NO ! |
| deliver | Public ! | ● | NO ! |
| reflectionFromToken | Public ! | | NO ! |
| tokenFromReflection | Public ! | | NO ! |
| excludeFromReward | Public ! | ● | onlyOwner |
| includeInReward | External ! | ● | onlyOwner |
| <Receive Ether> | External ! | ■ | NO ! |
| claimStuckTokens | External ! | ● | onlyOwner |
| isContract | Internal 🔒 | | |
| sendBNB | Internal 🔒 | ● | |
| _reflectFee | Private 🔒 | ● | |
| _getValues | Private 🔒 | | |
| _getTValues | Private 🔒 | | |
| _getRValues | Private 🔒 | | |
| _getRate | Private 🔒 | | |
| _getCurrentSupply | Private 🔒 | | |
| _takeDev | Private 🔒 | ● | |
| _takeMarketing | Private 🔒 | ● | |
| calculateTaxFee | Private 🔒 | | |
| calculateDevFee | Private 🔒 | | |
| calculateMarketingFee | Private 🔒 | | |
| removeAllFee | Private 🔒 | ● | |
| restoreAllFee | Private 🔒 | ● | |
| isExcludedFromFee | Public ! | | NO ! |
| _approve | Private 🔒 | ● | |
| _transfer | Private 🔒 | ● | |
| swapAndSendMarketing | Private 🔒 | ● | |
| swapAndSendDev | Private 🔒 | ● | |
| setSwapTokensAtAmount | External ! | ● | onlyOwner |
| setSwapEnabled | External ! | ● | onlyOwner |
| _tokenTransfer | Private 🔒 | ● | |
| _transferStandard | Private 🔒 | ● | |
| _transferToExcluded | Private 🔒 | ● | |
| _transferFromExcluded | Private 🔒 | ● | |
| _transferBothExcluded | Private 🔒 | ● | |
| excludeFromFees | External ! | ● | onlyOwner |
| changeMarketingWallet | External ! | ● | onlyOwner |
| changeDevWallet | External ! | ● | onlyOwner |
|||||

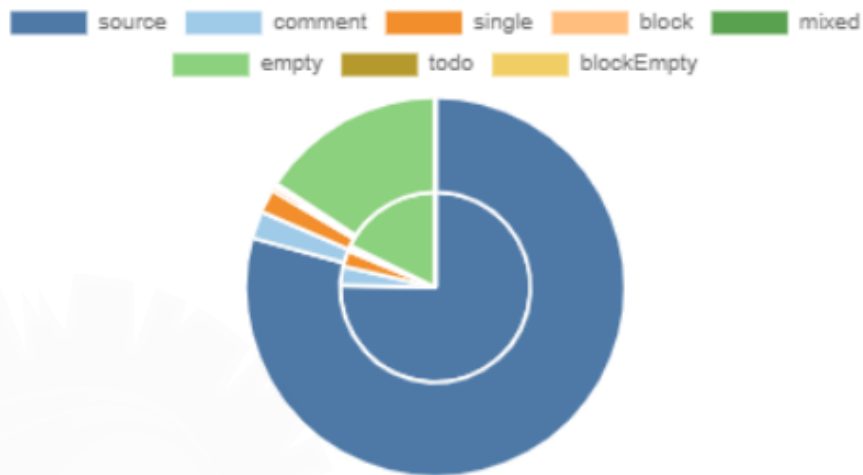
```



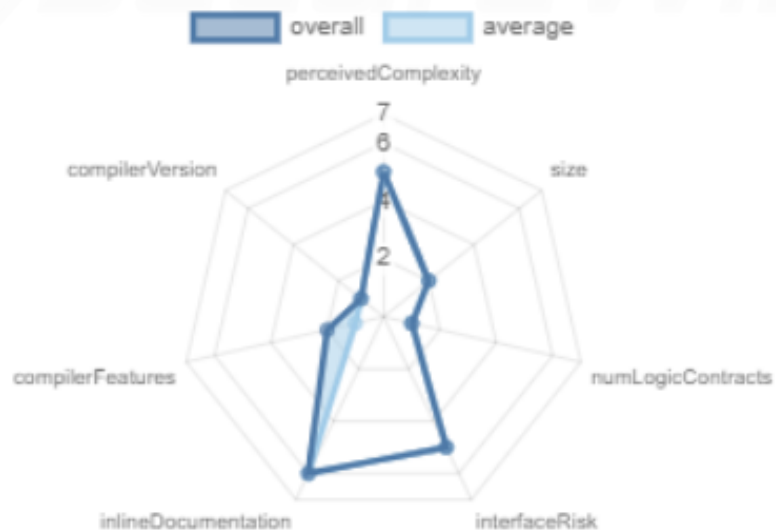
# Inheritance Graph



## Source Lines



## Risk



# Manual Review

## Informational

### Owner has the authority to exclude account from dividend

```
function excludeFromReward(address account) public onlyOwner() {
    require(!isExcluded[account], "Account is already excluded");
    if (rOwned[account] > 0) {
        tOwned[account] = tokenFromReflection(rOwned[account]);
    }
    isExcluded[account] = true;
    excluded.push(account);
}
```

## Description

**excludeFromReward** function, designed to exclude a specified account from receiving dividends.

## Recommendation

While assuming input validation occurs before invoking this function, it is advisable to explicitly validate the account parameter to ensure its conformity as a valid address. Implementing error-handling mechanisms to gracefully manage potential exceptions is also recommended. Ensure that appropriate access control mechanisms are in place to restrict the **excludeFromReward** function to only be called by the contract owner

# Manual Review

## Informational

### Owner can exclude specific accounts from paying fees

```
function excludeFromFees(address account, bool excluded) external onlyOwner {  
    require(!_isExcludedFromFees[account], "Account is already the value of 'excluded'");  
    _isExcludedFromFees[account] = excluded;  
    emit ExcludeFromFees(account, excluded);  
}
```

## Description

**excludeFromFees** allows the contract owner to modify the exclusion status of an account from fees by updating the **\_isExcludedFromFees** mapping.

## Recommendation

No specific recommendation is necessary for the **excludeFromFees** function at this time. However, it is important to ensure that the function is being used appropriately and that the owner's ability to exclude or include accounts from fees is clearly documented and understood.

# Manual Review

## Informational

Owner has the authority to change swap settings.

```
function setSwapTokensAtAmount(uint256 newAmount) external onlyOwner() {
    require(newAmount > totalSupply() / 100000, "SwapTokensAtAmount must be greater than 0.001% of total supply");
    swapTokensAtAmount = newAmount;
}
```

```
function setSwapEnabled(bool _enabled) external onlyOwner {
    swapEnabled = _enabled;
    emit SwapEnabledUpdated(_enabled);
}
```

## Description

**setSwapTokensAtAmount** function updates the **swapTokensAtAmount** variable to the provided value, which represents the minimum amount of tokens required for a swap to occur. **swapEnabled** variable to control the overall swapping functionality of the contract.

## Recommendation

Validate the input values provided to ensure they conform to any specific constraints or requirements. For example, ensure that the **newAmount** provided in **setSwapTokensAtAmount** is within acceptable ranges and aligned with the tokenomics of the project. Verify that appropriate access control mechanisms are in place to restrict these functions to only be called by the contract owner

# Manual Review

## Informational

### Owner has authority to claim stuck tokens

```
function claimStuckTokens(address token) external onlyOwner {
    require(token != address(this), "Owner cannot claim native tokens");
    if (token == address(0x0)) {
        payable(msg.sender).transfer(address(this).balance);
        return;
    }
    IERC20 ERC20token = IERC20(token);
    uint256 balance = ERC20token.balanceOf(address(this));
    ERC20token.transfer(msg.sender, balance);
}
```

## Description

**claimStuckTokens** that allows the contract owner to claim tokens that may have become stuck in the contract. For native tokens, if the provided token address is the same as the contract address (`address(this)`), an error message is returned since the **owner cannot claim native tokens**.

## Recommendation

Verify that appropriate access control mechanisms are in place to restrict this function to only be called by the contract owner.

# Disclaimer

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