freshcoins

SMART CONTRACT CODE REVIEW AND SECURITY ANALYSIS REPORT

Baby Wally

$BabyWally

18/01/2024

TOKEN OVERVIEW

Fees

- Buy fees: 5%
- Sell fees: 5%
- Transfer fees: 0%

At launch, specific conditions apply to buying and selling transactions (check page 8)

Fees privileges

- Can’t change fees

Ownership

- Owned

Minting

- No mint function

Max Tx Amount / Max Wallet Amount

- Can’t change max tx amount and / or max wallet amount

Blacklist

- Blacklist function not detected

Other privileges

- Can exclude / include from fees
- Contract owner has to call enableTrading function to enable trade

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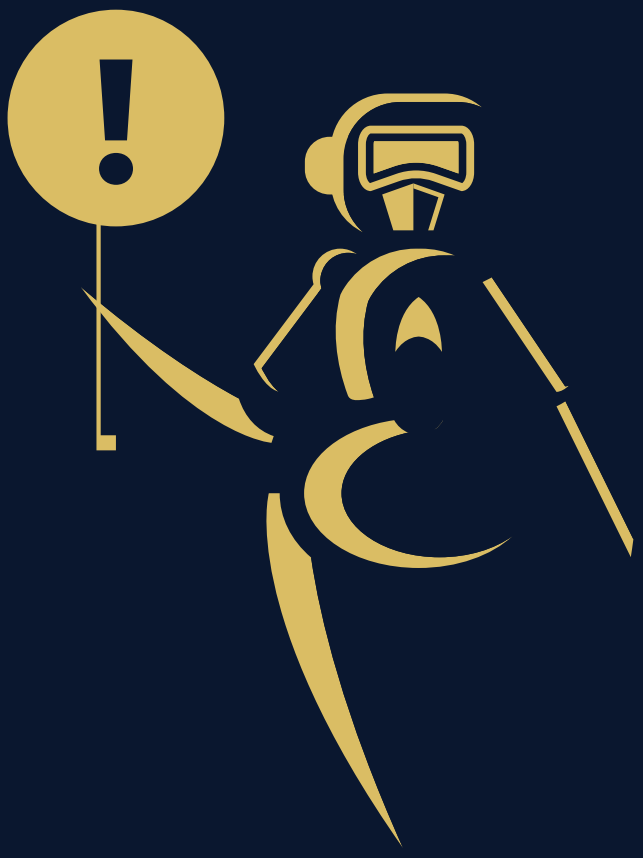
DISCLAIMER

The information provided on this analysis document is only for general information and should not be used as a reason to invest.

FreshCoins Team will take no payment for manipulating the results of this audit.

The score and the result will stay on this project page information on our website https://freshcoins.io
FreshCoins Team does not guarantees that a project will not sell off team supply, or any other scam strategy (RUG or Honeypot etc)



INTRODUCTION

FreshCoins (Consultant) was contracted by
Baby Wally (Customer) to conduct a Smart Contract Code Review and Security Analysis.

0x85B5E883eF5605f02De35B8f2B86cA0d7D6dCA23

Network: Binance Smart Chain (BSC)

This report presents the findings of the security assessment of Customer's smart contract and its code review conducted on 18/01/2024

WEBSITE DIAGNOSTIC

https://wallybsc.com/baby


0-49


50-89


90-100

Performance

Accessibility

Best Practices

SEO

Progressive Web App

Socials


Twitter

https://twitter.com/bscbabywally


Telegram

https://t.me/babywally

AUDIT OVERVIEW

82

Security Score

98

Static Scan
Automatic scanning for common vulnerabilities

81

ERC Scan
Automatic checks for ERC's conformance

1 High

0 Medium

0 Low

0 Optimizations

0 Informational

No.	Issue description	Checking Status
1	Compiler Errors / Warnings	Passed
2	Reentrancy and Cross-function	Passed
3	Front running	Passed
4	Timestamp dependence	Passed
5	Integer Overflow and Underflow	Passed
6	Reverted DoS	Passed
7	DoS with block gas limit	Low
8	Methods execution permissions	Passed
9	Exchange rate impact	Passed
10	Malicious Event	Passed
11	Scoping and Declarations	Passed
12	Uninitialized storage pointers	Passed
13	Design Logic	Passed
14	Safe Zeppelin module	Passed

OWNER PRIVILEGES

- Contract owner can't mint tokens after initial contract deploy

- Contract owner can't exclude an address from transactions

- Contract owner can exclude/include wallet from tax

```
function excludeFromFees(address account, bool excluded) external onlyOwner{
    _isExcludedFromFees[account] = excluded;

    emit ExcludeFromFees(account, excluded);
}
```

- Contract owner can change feeReceiver address

  Current value:

  feeReceiver: 0xeb0d97977B69bD427BfC8Fd93281778F62F69B5c

```
function changeMarketingReceiver(address _feeReceiver) external onlyOwner{
    require(_feeReceiver != address(0), "Fee receiver cannot be the zero address");
    feeReceiver = _feeReceiver;

    emit FeeReceiverChanged(feeReceiver);
}
```

- Contract owner can change swap settings (with threshold)

```
function setSwapTokensAtAmount(uint256 newAmount, bool _swapEnabled) external onlyOwner{
    require(newAmount > totalSupply() / 1_000_000, "Must be greater than 0.0001% of total supply");
    swapTokensAtAmount = newAmount;
    swapEnabled = _swapEnabled;

    emit SwapTokensAtAmountUpdated(swapTokensAtAmount);
}
```

- Contract owner has ability to retrieve any token held by the contract

  Native tokens excluded

```
function stuckClaimTokens(address token) external onlyOwner {
    require(token != address(this), "Contract's balance of it own tokens");
    if (token == address(0x0)) {
        payable(msg.sender).sendValue(address(this).balance);
        return;
    }

    IERC20(token).transfer(msg.sender, IERC20(token).balanceOf(address(this)));
}
```

Contract owner has to call enableTrading function to enable trade

Please note that any wallet excluded from limitations (whitelist) retains the ability to engage in trading, even in situations where trading has been disabled

```
function enableTrading() external onlyOwner{
        require(!tradingEnabled, "Trading enabled");
        tradingEnabled = true;
        swapEnabled = true;
        tradingTime = block.timestamp;

        emit TradingEnabled(tradingEnabled);
}

_transferFrom function line 372
.
.
.
require(tradingEnabled || _isExcludedFromFees[from] || _isExcludedFromFees[to], "Wait launch BabyWally");
.
.
.
```

Contract owner can transfer ownership

```
function transferOwnership(address newOwner) public virtual onlyOwner {
        require(newOwner != address(0), "Ownable: new owner is the zero address");
        emit OwnershipTransferred(_owner, newOwner);
        _owner = newOwner;
}
```

Contract owner can renounce ownership

```
function renounceOwnership() public virtual onlyOwner {
        emit OwnershipTransferred(_owner, address(0));
        _owner = address(0);
}
```

Buy Transactions (from UniswapV2Pair):

If the sender is the Uniswap V2 pair (from == uniswapV2Pair), the following conditions apply:

If the current block timestamp is greater than 45 minutes after the trading started (block.timestamp > tradingTime + 45 minutes), then _totalFees is set to feeOnBuy.

Otherwise, if the above condition is not met, _totalFees is set to 0.

Sell Transactions (to UniswapV2Pair):

If the recipient is the Uniswap V2 pair (to == uniswapV2Pair), the following conditions apply:

If the current block timestamp is greater than 45 minutes after the trading started (block.timestamp > tradingTime + 45 minutes), then _totalFees is set to feeOnSell.

If the above condition is not met, and the current block timestamp is greater than 30 minutes after the trading started (block.timestamp > tradingTime + 30 minutes), then _totalFees is set to 16.

If neither of the above conditions is met, _totalFees is set to 21.

Other Transactions:

For transactions not involving the Uniswap pair, _totalFees is set to feeOnTransfer.

Exclusion from Fees or Swapping:

If the sender (from) or the recipient (to) is excluded from fees (_isExcludedFromFees[from] or _isExcludedFromFees[to] is true), or if swapping is in progress (swapping is true), then _totalFees is set to 0 (no fees).

Summary:

o When a user buys (from == uniswapV2Pair), they will pay a buying fee (feeOnBuy) if at least 45 minutes have passed since trading started.

o When a user sells (to == uniswapV2Pair), the fee depends on the time since trading started:

- If more than 45 minutes have passed, the selling fee is feeOnSell.
- If between 30 and 45 minutes have passed, the selling fee is 16.
- If less than 30 minutes have passed, the selling fee is 21.

o For other transactions, there is a general transfer fee (feeOnTransfer).

```
if (_isExcludedFromFees[from] || _isExcludedFromFees[to] || swapping) {
        _totalFees = 0;
    } else if (from == uniswapV2Pair) {
        if (block.timestamp > tradingTime + 45 minutes){
            _totalFees = feeOnBuy;
        } else {
            _totalFees = 0;
        }
    } else if (to == uniswapV2Pair) {
        if (block.timestamp > tradingTime + 45 minutes){
            _totalFees = feeOnSell;
        } else if (block.timestamp > tradingTime + 30 minutes){
            _totalFees = 16;
        } else {
            _totalFees = 21;
        }
    } else {
        _totalFees = feeOnTransfer;
}
```

Recommendation:

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. The risk can be prevented by temporarily locking the contract or renouncing ownership.

CONCLUSION AND ANALYSIS

Smart Contracts within the scope were manually reviewed and analyzed with static tools.

Audit report overview contains all found security vulnerabilities and other issues in the reviewed code.

Found 1 HIGH issues during the first review.

TOKEN DETAILS

Details

Buy fees:	5%
Sell fees:	5%
Transfer fees:	0%

At launch, specific conditions apply to buying and selling transactions (check page 8)

Max TX:	N/A
Max Sell:	N/A

Honeypot Risk

Ownership:	Owned
Blacklist:	Not detected
Modify Max TX:	Not detected
Modify Max Sell:	Not detected
Disable Trading:	Not detected

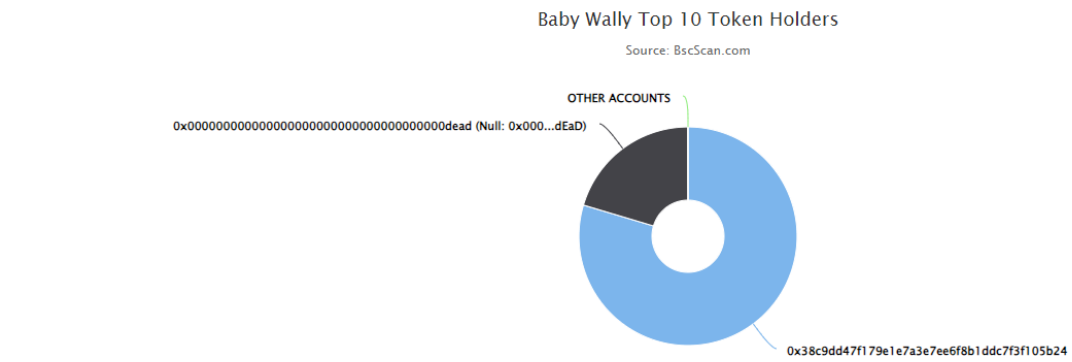
Rug Pull Risk

Liquidity:	N/A
Holders:	over 70% unlocked tokens

BABYWALLY TOKEN ANALYTICS & TOP 10 TOKEN HOLDERS

The top 10 holders collectively own 100.00% (420,000,000,000,000.00 Tokens) of Baby Wally

Token Total Supply: 420,000,000,000,000.00 Token | Total Token Holders: 2



(A total of 420,000,000,000,000.00 tokens held by the top 10 accounts from the total supply of 420,000,000,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	0x38c9DD...3f105b24	334,356,000,000,000	79.6086%
2	Null: 0x000...dEaD	85,644,000,000,000	20.3914%

TECHNICAL DISCLAIMER

Smart contracts are deployed and executed on the blockchain platform. The platform, its programming language, and other software related to the smart contract can have its vulnerabilities that can lead to hacks. The audit can't guarantee the explicit security of the audited project / smart contract.