



Baby Froggy Token

RugfreeCoins Verified on October 05th, 2023

Overview

- No mint function found, the owner cannot mint tokens after initial deployment.
- The owner can't set a max transaction limit
- The owner can't pause trading once it's enabled
- X The owner must enable trade for the holders, if trading remains disabled, no one would be able to buy and sell.
- The owner can't change fees over 2%.
- The owner can't blacklist wallets.
- The owner can't set a max wallet limit
- The owner can't claim the contract's balance of its own token.

! HIGH SEVERITY ISSUES

The owner must enable trade for the holders, if trading remains disabled, no one would be able to buy and sell.

```
function enableTrading() public onlyOwner {
    require(!tradingEnabled, "Trading already enabled!");
    require(hasLiqBeenAdded, "Liquidity must be added.");
    tradingEnabled = true;
    swapEnabled = true;
    allowedPresaleExclusion = false;
}
```

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Audit details



Audited project

Baby Froggy Token



Contract Address

0xe17f265Ce11290895a884f949110a3F85FF82c41



Client contact

Baby Froggy Team



Blockchain

Binance Smart chain



Project website

http://froggy.baby/

Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

Background

RugfreeCoins was commissioned by the Baby Froggy Token Team to perform an audit of the smart contract.

https://bscscan.com/address/0xe17f265ce11290895a884f949110a3f85ff82c41#code

This audit focuses on verifying that the smart contract is secure, resilient, and working according to the specifications.

The information in this report should be used to understand the risk exposure of the smart contract, project feasibility, and long-term sustainability, and as a guide to improving the smart contract's security posture by remediating the identified issues.

Tokenomics

▲ 1% tax when buying & selling

1% of trade goes to the Dev wallet in BNB

Target market and the concept

- Anyone who's interested in the Crypto space with long-term investment plans.
- Anyone who's ready to earn a passive income by holding tokens.
- Anyone who's interested in trading tokens.
- Anyone who's interested in taking part in the Baby Froggy token ecosystem.
- Anyone who's interested in taking part in the future plans of Baby Froggy Token.
- Anyone who's interested in making financial transactions with any other party using Baby Froggy Token as the currency.

Potential to grow with score points

→ Project efficiency	8 / 10
* Project uniqueness	7/10
Information quality	8 / 10
👌 Service quality	8 / 10
System quality	8 / 10
impact on the community	8 / 10
impact on the business	9 / 10
Preparing for the future	8 / 10
	9 / 10
Smart contract functionality assessment	9 / 10
▼ Total Score	8.2 / 10

Contract details

Token contract details for 5th of October 2023

Contract name	Baby Froggy
Contract address	0xe17f265Ce11290895a884f949110a3F85FF82c41
Token supply	100,000,000,000,000
Token ticker	BabyFroggy
Decimals	6
Token holders	1
Transaction count	1
Contract deployer address	0x5f88E0cDaEeE4962279D95CEe11E8c232d40F56A
Contract's current owner address	0x5f88E0cDaEeE4962279D95CEe11E8c232d40F56A

Contract code function details

Nº	Category	Item	Result
		ERC20 Token standards	PASS -
		Compile errors	PASS -
		Compiler version security	PASS -
		Visibility specifiers	PASS -
		Gas consumption	LOW -
1	Coding conventions	SafeMath features	PASS +
		Fallback usage	PASS -
		tx.origin usage	PASS -
		Deprecated items	PASS +
		Redundant code	PASS +
		Overriding variables	PASS +
		Authorization of function call	PASS +
2	Function call audit	Low level function (call/delegate call) security	PASS -
2		Returned value security	PASS +
		Self destruct function security	PASS +
		Access control of owners	HIGH •
3	Business security & centralisation	Business logics	PASS +
		Business implementation	PASS +
4	Integer overflow/underflow		PASS +
5	Reentrancy		PASS +
6	Exceptional reachable state		PASS +
7	Transaction ordering dependence		PASS +
8	Block properties dependence		PASS +
9	Pseudo random number generator (PRI	NG)	PASS +
10	DoS (Denial of Service)		PASS +
11	Token vesting implementation		PASS +
12	Fake deposit		PASS +
13	Event security		PASS -

Contract description table

The below table represents the summary of the contracts and methods in the token contract. We scanned the whole contract and listed down all the Interfaces, functions, and implementations with their visibility and mutability.

Contract	Туре	Bases		
L	Function Name	Visibility	Mutability	Modifier
SafeMath	Library			
L	add	Internal 🔒		
L	sub	Internal 🔒		
L	sub	Internal 🔒		
L	mul	Internal 🔒		
L	div	Internal 🔒		
L	div	Internal 🔒		
IERC20	Interface			
L	totalSupply	External !		NO !
L	decimals	External !		NO !
L	symbol	External !		NO !
L	name	External !		NO !
L	getOwner	External		NO !
L	balanceOf	External		NO !

L	transfer	External		NO !
L	allowance	External !		NO !
L	approve	External !		NO !
L	transferFrom	External	•	NO !
IFactoryV2	Interface			
L	getPair	External		NO !
L	createPair	External		NO !
IV2Pair	Interface			
L	factory	External !		NO !
L	getReserves	External !		NO !
L	sync	External !	•	NO !
IRouter01	Interface			
L	factory	External !		NO !
L	WETH	External		NO !
L	addLiquidityETH	External !	(\$ 	NO !
L	addLiquidity	External !		NO !
L	swapExactETHForTokens	External !	(S)	NO !
L	getAmountsOut	External !		NO !

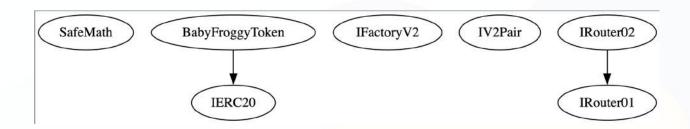
L	getAmountsIn	External		NO !
ID				
IRouter02	Interface	IRouter01		
L	swapExactTokensForETHSupportingFeeOnTra nsferTokens	External		NO !
L	swapExactETHForTokensSupportingFeeOnTra nsferTokens	External !	[\$	NO !
L	swapExactTokensForTokensSupportingFeeOn TransferTokens	External !	•	NO !
L	swapExactTokensForTokens	External !		NO !
BabyFroggy Token	Implementation	IERC20		
L		Public !	(\$	NO !
L		External !	(\$	NO !
L	totalSupply	External !		NO !
L	decimals	External !		NO !
L	symbol	External !		NO !
L	name	External !		NO !
L	getOwner	External !		NO !
L	allowance	Public !		NO !
L	balanceOf	Public !		NO !
L	transfer	Public !		NO !
L	approve	External !		NO !
L	_approve	Internal 🔒		

L	approveContractContingency	External		onlyOwner
L	transferFrom	External !	•	NO !
L	_hasLimits	Internal 🔒		
L	_transfer	Internal 🔒		
L	finalizeTransfer	Internal 🔒	•	
L	_transferAmount	Internal 🔒	•	
L	_checkLiquidityAdd	Internal 🔒	•	
L	swapTokensForEth	Private 🔐		lockThe Swap
L	sendETHToFee	Private 🔐	•	
L	manualswap	External !	•	NO !
L	manualsend	External !	•	NO !
L	transferOwner	External !		onlyOwner
L	renounceOwnership	External !	•	onlyOwner
L	excludePresaleAddresses	External !		onlyOwner
L	setDevAddress	External !		onlyOwner
L	excludeMultipleAccountsFromFees	Public !		onlyOwner
L	enableTrading	Public !	•	onlyOwner
L	setFee	Public !		onlyOwner
L	updateSwapEnabled	External !		onlyOwner

Legend

Symbol	Meaning
	Function can modify state
(\$	Function is payable

Inheritance Hierarchy



Security issue checking status

High severity issues

The owner must enable trade for the holders, if trading remains disabled, no one would be able to buy and sell.

```
function enableTrading() public onlyOwner {
    require(!tradingEnabled, "Trading already enabled!");
    require(hasLiqBeenAdded, "Liquidity must be added.");
    tradingEnabled = true;
    swapEnabled = true;
    allowedPresaleExclusion = false;
}
```

Medium severity issues

No medium severity issues found

Low severity issues

It verifies the sender's balance after the swap, and if the user does not have the required balance, the transaction will fail, resulting in a loss of gas. Therefore, the balance check should be conducted at the beginning of the function.

```
uint256 fromBalance = _balances[from];
require(
   fromBalance >= amount,
   "ERC20: transfer amount exceeds balance"
);
```

When excluding multiple wallets from fees, the owner can input any number of wallets simultaneously. However, it's important to note that if the owner enters a large array of wallets, the transaction may fail due to the block gas limit.

```
function excludeMultipleAccountsFromFees(
   address[] calldata _accounts,
   bool _excluded
) public onlyOwner {
   for (uint256 i = 0; i < _accounts.length; i++) {
      _isExcludedFromFee[_accounts[i]] = _excluded;
   }
}</pre>
```

Owner privileges

Owner and dev wallet can manually swap and send BNB to the dev wallet

```
function manualswap() external {
    require(msg.sender == devAddress || msg.sender == _owner);
    uint256 contractBalance = balanceOf(address(this));
    swapTokensForEth(contractBalance);
}

function manualsend() external {
    require(msg.sender == devAddress || msg.sender == _owner);
    uint256 contractETHBalance = address(this).balance;
    sendETHToFee(contractETHBalance);
}
```

Owner can change dev wallet address

```
function setDevAddress(address _newAddress) external onlyOwner {
    require(devAddress != address(0), "address cannot be 0");
    devAddress = payable(_newAddress);
}
```

Owner can transfer and renounce the ownership

```
000
   function transferOwner(address _newOwner) external onlyOwner {
        require(
           _newOwner != address(0),
           "Call renounceOwnership to transfer owner to the zero address."
        );
        require(
            _newOwner != DEAD,
           "Call renounceOwnership to transfer owner to the zero address."
        );
        if (balanceOf(_owner) > 0) {
            finalizeTransfer(_owner, _newOwner, balanceOf(_owner));
        }
        address oldOwner = _owner;
        _owner = _newOwner;
        _isExcludedFromFee[_owner] = true;
        emit OwnershipTransferred(oldOwner, _newOwner);
   }
   function renounceOwnership() external onlyOwner {
        address oldOwner = _owner;
        _owner = address(0);
        emit OwnershipTransferred(oldOwner, address(0));
   }
```

Owner can enable trading, once enabled can not disable again

```
function enableTrading() public onlyOwner {
    require(!tradingEnabled, "Trading already enabled!");
    require(hasLiqBeenAdded, "Liquidity must be added.");
    tradingEnabled = true;
    swapEnabled = true;
    allowedPresaleExclusion = false;
}
```

Owner can exclude pre-sale address from contract before enabling trading

```
000
    function excludePresaleAddresses(
        address _router,
        address _presale
    ) external onlyOwner {
        require(allowedPresaleExclusion);
        require(
            _router != address(this) &&
                _presale != address(this) &&
                lpPair != _router &&
                lpPair != _presale,
            "Just don't."
        );
        if (_router == _presale) {
            _liquidityHolders[_presale] = true;
        } else {
            _liquidityHolders[_router] = true;
            _liquidityHolders[_presale] = true;
        }
   }
```

Owner can include/exclude multiple wallets from fees

```
function excludeMultipleAccountsFromFees(
   address[] calldata _accounts,
   bool _excluded
) public onlyOwner {
   for (uint256 i = 0; i < _accounts.length; i++) {
      _isExcludedFromFee[_accounts[i]] = _excluded;
   }
}</pre>
```

❖ Owner can change buy and sell fees maximum up-to 2%

```
function setFee(
    uint256 _taxFeeOnBuy,
    uint256 _taxFeeOnSell
) public onlyOwner {
    require(_taxFeeOnBuy <= 10, "Tax cannot be more than 1.");
    require(_taxFeeOnSell <= 10, "Tax cannot be more than 1.");
    taxFeeOnBuy = _taxFeeOnBuy;
    taxFeeOnSell = _taxFeeOnSell;
}</pre>
```

Audit conclusion

RugFreeCoins team has performed in-depth testing, line-by-line manual code review, and automated audit of the smart contract. The smart contract was analyzed mainly for common smart contract vulnerabilities, exploits, manipulations, and hacks. According to the smart contract audit.

