RUGFREECOINS

Baby Floki Token

RugfreeCoins Verified on February 19th, 2024

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

❌ 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.

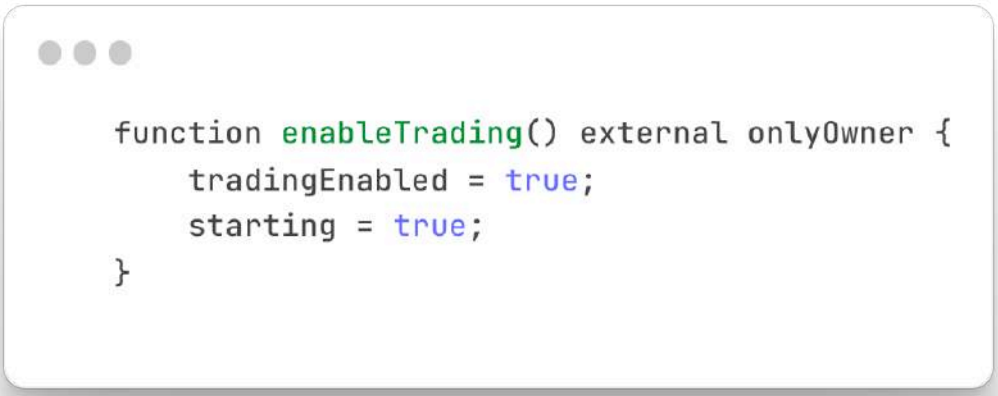
✅ The owner can't blacklist wallets.

✅ 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() external onlyOwner {
    tradingEnabled = true;
    starting = true;
}
```

Contents

Audit details

Audited project

Baby Floki Token

Contract Address

0x62cc770228454DBab59Af9cD9E0998a7B7933d94

Client contact

Baby Floki Token Team

Blockchain

Binance Smart chain

Project website

http://babyfloki.site/

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 Floki Token Team** to perform an audit of the smart contract.

https://bscscan.com/token/0x62cc770228454DBab59Af9cD9E0998a7B7933d94

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

▲ 5% tax when buying & selling

5% of trade goes to the tax 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 Floki token ecosystem.
- Anyone who's interested in taking part in the future plans of Baby Floki Token.
- Anyone who's interested in making financial transactions with any other party Baby Floki Token as the currency.

Potential to grow with score points

⚡ Project efficiency	8 / 10
🌟 Project uniqueness	8 / 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
🔒 Smart contract security	8 / 10
🛠️ Smart contract functionality assessment	9 / 10
🏆 **Total Score**	**8.2** / 10

Contract details

Token contract details for 19th of February 2024

Contract name	**Baby Floki**
Contract address	**0x62cc770228454DBab59Af9cD9E0998a7B7933d94**
Token supply	**1,000,000,000**
Token ticker	**BabyFloki**
Decimals	**18**
Token holders	**1**
Transaction count	**1**
Contract deployer address	**0x8fe7A221c57b0c55e5104c48eABd52b4eE32B154**
Contract’s current owner address	**0x8fe7A221c57b0c55e5104c48eABd52b4eE32B154**

Contract code function details

№	Category	Item	Result
1	Coding conventions	ERC20 Token standards	PASS
		Compile errors	PASS
		Compiler version security	PASS
		Visibility specifiers	PASS
		Gas consumption	PASS
		SafeMath features	PASS
		Fallback usage	PASS
		tx.origin usage	PASS
		Deprecated items	PASS
		Redundant code	PASS
		Overriding variables	PASS
2	Function call audit	Authorization of function call	PASS
		Low level function (call/delegate call) security	PASS
		Returned value security	PASS
		Self destruct function security	PASS
3	Business security & centralisation	Access control of owners	HIGH
		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 (PRNG)		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	**Type**	**Bases**		
L	Function Name	Visibility	Mutability	Modifiers
IRouter	**Interface**			
L	WETH	External ❗		NO ❗
L	factory	External ❗		NO ❗
L	swapExactTokensForETHSupportingFeeOnTransferTokens	External ❗	🛑	NO ❗
IFactory	**Interface**			
L	getPair	External ❗		NO ❗
L	createPair	External ❗	🛑	NO ❗
BabyFloki	**Implementation**	**BEP20**		
L		Public ❗	🛑	BEP20
L		External ❗	💵	NO ❗
L	excludeFromFee	Public ❗	🛑	onlyOwner
L	isSwapPair	Private 🔐	🛑	
L	enableTrading	External ❗	🛑	onlyOwner
L	_transfer	Internal 🔒	🛑	

└	min	Private 🔐		
└	_swapAndTransferFee	Private 🔐	🛑	
└	_swapForETH	Private 🔐	🛑	
Ownable	**Implementation**	**Context**		
└		Public ❗	🛑	NO ❗
└	owner	Public ❗		NO ❗
└	_checkOwner	Internal 🔒		
└	renounceOwnership	Public ❗	🛑	onlyOwner
└	transferOwnership	Public ❗	🛑	onlyOwner
└	_transferOwnership	Internal 🔒	🛑	
Address	**Library**			
└	isContract	Internal 🔒		
└	sendValue	Internal 🔒	🛑	
└	functionCall	Internal 🔒	🛑	
└	functionCall	Internal 🔒	🛑	
└	functionCallWithValue	Internal 🔒	🛑	
└	functionCallWithValue	Internal 🔒	🛑	
└	functionStaticCall	Internal 🔒		
└	functionStaticCall	Internal 🔒		
└	functionDelegateCall	Internal 🔒	🛑	

└	functionDelegateCall	Internal 🔒	🛑	
└	verifyCallResultFromTarget	Internal 🔒		
└	verifyCallResult	Internal 🔒		
└	_revert	Private 🔐		
Context	**Implementation**			
└	_msgSender	Internal 🔒		
└	_msgData	Internal 🔒		
SafeMath	**Library**			
└	tryAdd	Internal 🔒		
└	trySub	Internal 🔒		
└	tryMul	Internal 🔒		
└	tryDiv	Internal 🔒		
└	tryMod	Internal 🔒		
└	add	Internal 🔒		
└	sub	Internal 🔒		
└	mul	Internal 🔒		
└	div	Internal 🔒		
└	mod	Internal 🔒		
└	sub	Internal 🔒		

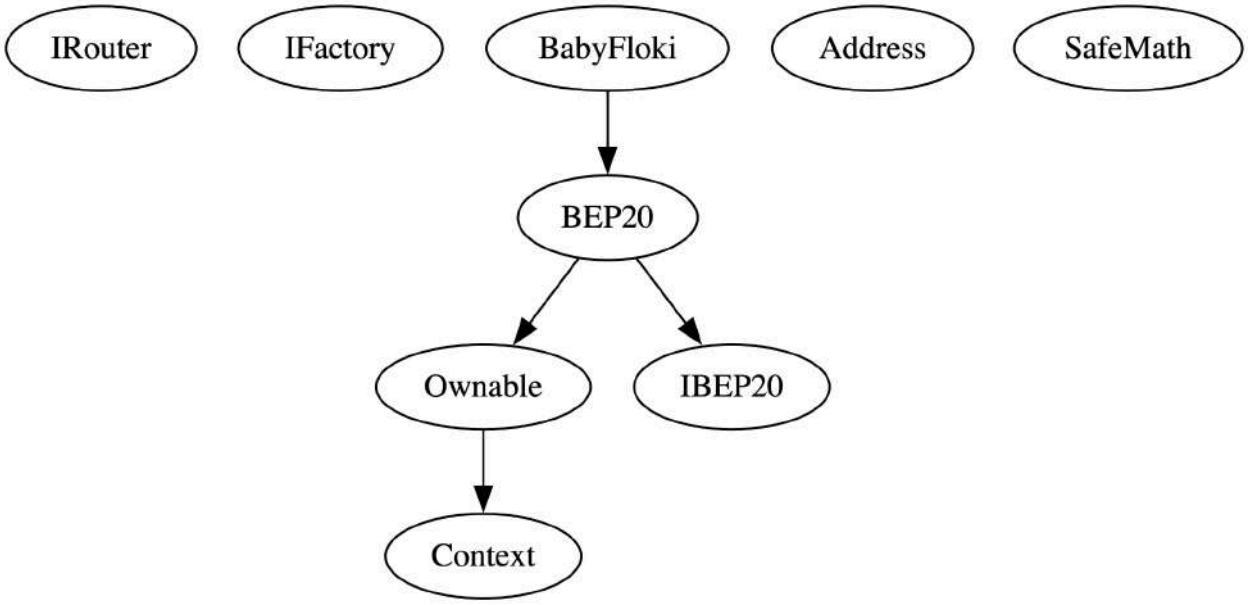
└	div	Internal 🔒		
└	mod	Internal 🔒		
BEP20	**Implementation**	**Ownable, IBEP20**		
└		Public ❗	🛑	NO ❗
└	name	Public ❗		NO ❗
└	symbol	Public ❗		NO ❗
└	decimals	Public ❗		NO ❗
└	totalSupply	Public ❗		NO ❗
└	balanceOf	Public ❗		NO ❗
└	getOwner	Public ❗		NO ❗
└	transfer	Public ❗	🛑	NO ❗
└	allowance	Public ❗		NO ❗
└	approve	Public ❗	🛑	NO ❗
└	transferFrom	Public ❗	🛑	NO ❗
└	_transfer	Internal 🔒	🛑	
└	_mint	Internal 🔒	🛑	
└	_burn	Internal 🔒	🛑	
└	_approve	Internal 🔒	🛑	
└	_spendAllowance	Internal 🔒	🛑	
└	_beforeTokenTransfer	Internal 🔒	🛑	
└	_afterTokenTransfer	Internal 🔒	🛑	
IBEP20	**Interface**			

L	name	External ❗		NO ❗
L	symbol	External ❗		NO ❗
L	decimals	External ❗		NO ❗
L	totalSupply	External ❗		NO ❗
L	balanceOf	External ❗		NO ❗
L	getOwner	External ❗		NO ❗
L	transfer	External ❗	🛑	NO ❗
L	transferFrom	External ❗	🛑	NO ❗
L	approve	External ❗	🛑	NO ❗
L	allowance	External ❗		NO ❗

Legend

Symbol	Meaning
🛑	Function can modify state
💵	Function is payable

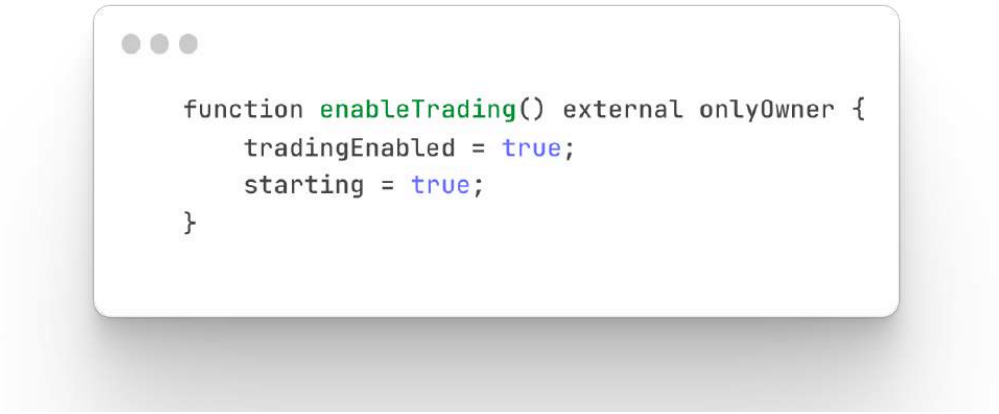
Inheritance Hierarchy



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.



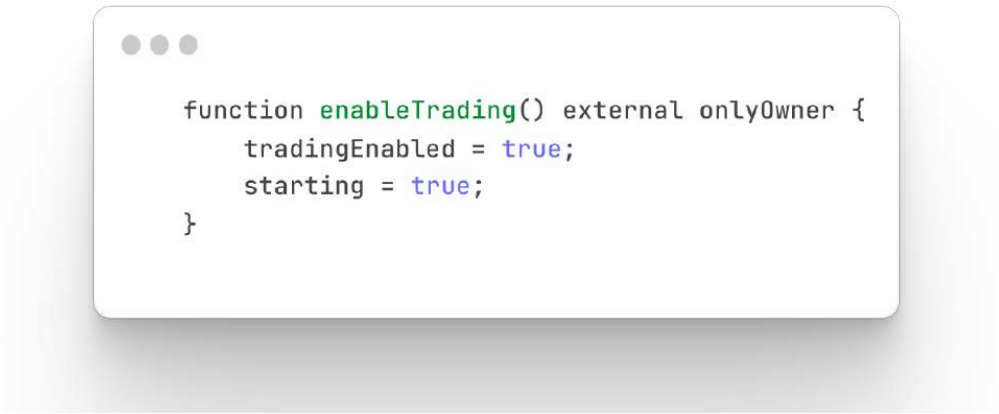
```
function enableTrading() external onlyOwner {
    tradingEnabled = true;
    starting = true;
}
```

❖ Medium severity issues

No medium severity issues found

❖ Low severity issues

When calling to enable trading, it does not check whether it is already enabled. The owner can call it multiple times, resulting in a loss of gas.



```
function enableTrading() external onlyOwner {
    tradingEnabled = true;
    starting = true;
}
```

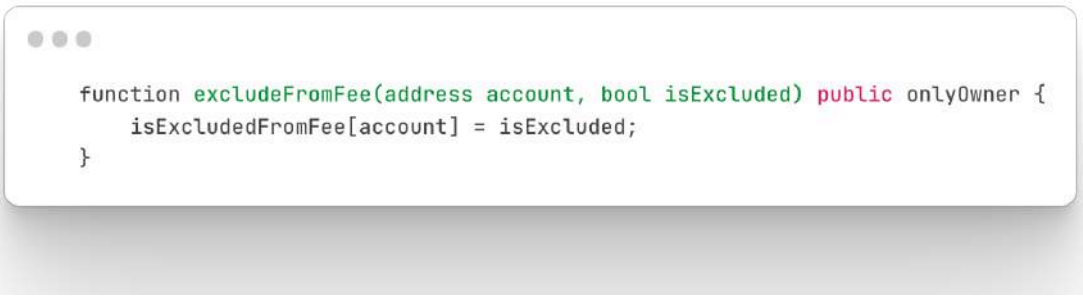
Starting from Solidity version 0.8.0, SafeMath is built-in, and there is no need to import it separately.

```
pragma solidity 0.8.19;

import "@openzeppelin/contracts/utils/Address.sol";
import "@openzeppelin/contracts/utils/math/SafeMath.sol";
import "@openzeppelin/contracts/access/Ownable.sol";
import "@openzeppelin/contracts/utils/math/SafeMath.sol";
import "./BEP20/BEP20.sol";
```

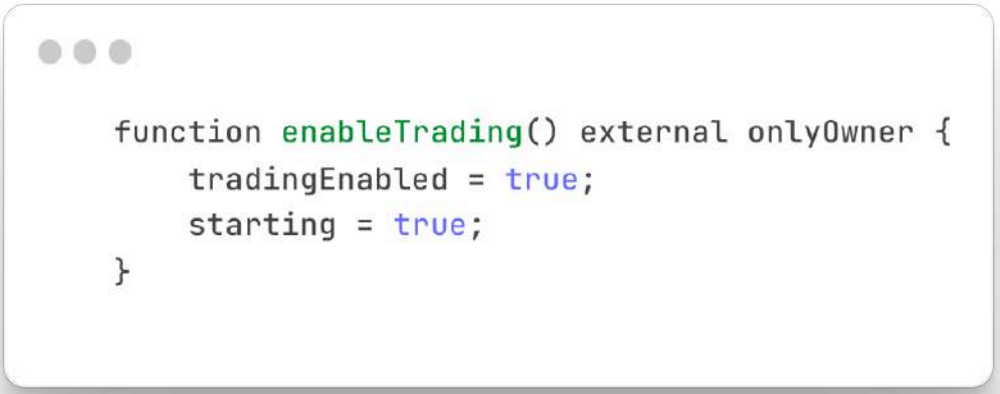
Owner privileges

- Owner can include/exclude wallets from fees



```
function excludeFromFee(address account, bool isExcluded) public onlyOwner {
    isExcludedFromFee[account] = isExcluded;
}
```

- Owner can enable trading,once enabled can not disable again



```
function enableTrading() external onlyOwner {
    tradingEnabled = true;
    starting = true;
}
```

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.

Smart contract functional Status:	PASS
Smart contract security Status:	HIGH ISSUE & LOW ISSUE
Number of risk issues:	03
Solidity code functional issue level:	PASS
Number of owner privileges:	02
Centralization risk correlated to the active owner:	HIGH
Smart contract active ownership:	ACTIVE