

RugFreeCoins Audit



Bomber Babes Token

Smart Contract Security Audit

April 09, 2022

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Audit details



Audited project Bomber Babes Token



Contract Address

0x4B78bD1e38Fc5d2Dd43a0c9326A20E7f9099C95a



Client contact

Bomber Babes Team



Blockchain

Binance smart chain



Project website

https://bomberbabes.io/

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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Background

Rugfreecoins was commissioned by the Bomber Babes Team to perform an audit of the smart contract.

https://bscscan.com/token/0x4B78bD1e38Fc5d2Dd43a0c9326A20E7f9099C95a

The focus of this audit is to verify 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, long-term sustainability, and as a guide to improving the security posture of the smart contract by remediating the issues that were identified.

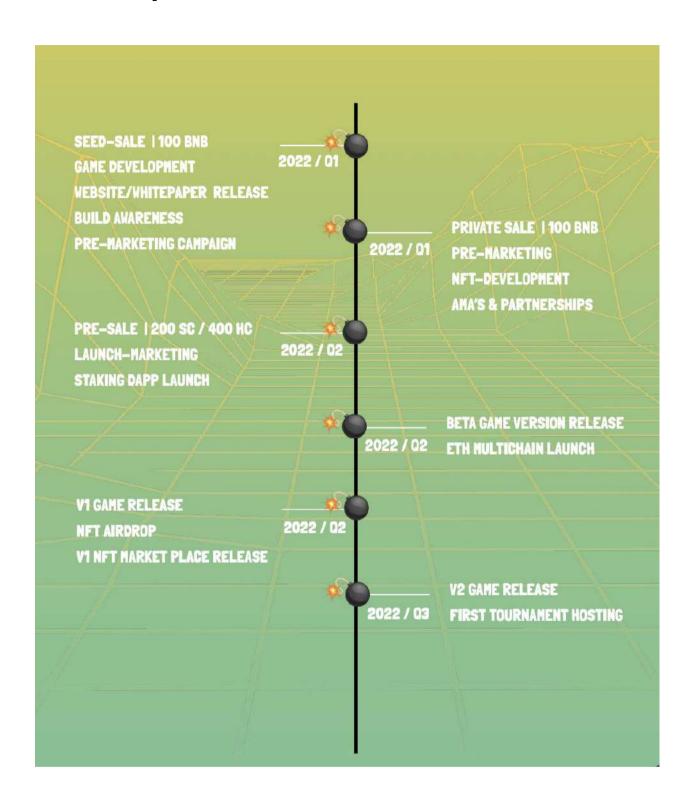
About the project

Bomber Babes Token is a token built on the Binance Smart Chain that is with an innovative investment use case the main purpose of which is to seek out constant revenue sources, **auto staking protocol backed by Defi 3.0 yield farming** on BSC. Bomber Babes will bring an unparallel, fixed APY of **%, the highest of its kind** onto the BSC blockchain while imposing profound ease, simplicity, and accessibility upon all Bomber Babes holders. Each transaction, purchase incurs an 11% fee, and sale incurs a 19% fee.

Features

- 4% of the buy and sale fees are directed to the vault which helps sustain and back the Staking Rewards provided by the Positive Rebase.
- The sustainability fee of 5% when buying and selling for marketing, and 3% when buying and selling for development, is what allows Bomber Babes Token to hold the aforementioned promise. Tokens will be swapped into BNB and will be sent to a marketing wallet. This way, Bomber Babes Token will have enough funds to promote the coin and spend for future development without selling tokens as the traditional way.
- The additional component included under the sustainability section is a liquidity fee of 2% when buying and selling, which is a redistribution mechanism that ensures the trading pool always has sufficient liquidity.

Roadmap



Tokenomics

14% fee when buying

- 5% of trade goes to marketing wallet in BNB
- 4% of trade goes to vault in tokens
- 3% trade goes to the development wallet
- 2% of trade goes to the liquidity pool.

16% fee when selling

- 5% of trade goes to marketing wallet in BNB
- 4% of trade goes to vault in tokens
- 3% trade goes to the development wallet
- 2% of trade goes to the liquidity pool.

18% fee when selling (increased sell fee by 4% first 72h launch)

- 9% of trade goes to marketing wallet in BNB
- 4% of trade goes to vault in tokens
- 3% trade goes to the development wallet
- 2% of trade goes to the liquidity pool.

Target market and the concept

Target market

- 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 ready in receiving automatic staking and compound rewards every 8 minutes.
- Anyone who's interested in receiving fixed interest of 2,033,199.56% per year.
- Anyone who's interested in taking part in the future plans of the Bomber Babes token.
- Anyone who's interested in making financial transactions with any other party using Bomber Babe as the currency.

Core concept

Reward mechanism

4% of when buying selling are stored in the Insurance fund which helps sustain and back the staking rewards provided by the positive rebase.

Bomber Babes fund is a separate wallet in the ecosystem. The Bomber Babes fund uses an algorithm that backs the Rebase Rewards and is supported by a portion of the buy and sell trading fees that accrue in the wallet.

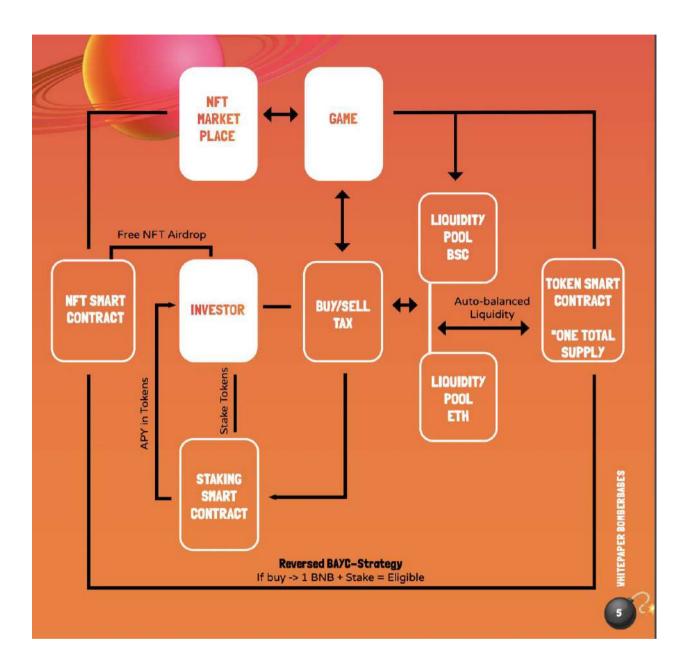
In simple terms, the staking rewards (rebase rewards) are distributed every 60 mins backed by the Bomber Babes parameter, thus ensuring a high and stable interest rate for bomber Babes holders.

Sustainable mechanism

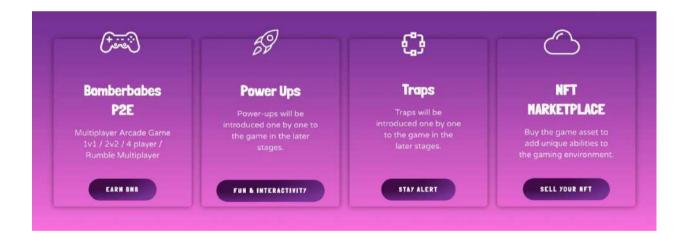
The sustainability fee of 5% when buying and selling for marketing, and 3% when buying and selling for development is what allows Bomber Babes to promote the token and use funds to further the development of the platform. Tokens will be swapped into BNB and will be sent to the marketing wallet and development. This way, Bomber Babes will have access to the funds without selling tokens as the traditional way, which will enable them to consume funds without hurting the project.

The liquidity fee of 2% when buying and selling, is a redistribution mechanism that ensures the trading pool always has sufficient liquidity.

The Flow







Potential to grow with score points

1.	Project efficiency	10/10
2.	Project uniqueness	9/10
3	Information quality	10/10
4	Service quality	9/10
5	System quality	10/10
6	Impact on the community	10/10
7	Impact on the business	10/10
8	Preparing for the future	10/10
Tota	Points	9.75/10

Contract details

Token contract details for 9th April 2022

Contract name	Bomber Babes
Contract address	0x4B78bD1e38Fc5d2Dd43a0c9326A20E7f9099C95a
Token supply	10,000,000
Token ticker	\$BABES
Decimals	5
Token holders	1
Transaction count	2
Auto liquidity receiver	0xa6b390212ff29a27fcb00507cc5fc4cd9d55164e
Development Receiver	0xd3cf4215687cceed6783212ae8d70057d9f2df5d
Marketing Receiver	0xc0b9cf5a5da5076e374f8c4c5fa9929ea169e555
Vault	0x134885861e2917e8c15ee3a30e18050ea8f029fb
Contract deployer address	0xc5343208819F9Ef830e471E8Cf3d79cb994B7590
Contract's current owner address	0xe86791647155e489c0867580263e0c526951879d

Token Distribution



Contract code function details

No	Category	Item	Result
1	Coding conventions	BRC20 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
		Selfdestruct function security	pass
3	Business security	Access control of owners	High Centralization Risk
		Business logics	pass
		Business implementations	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	Туре	Bases		
L	Function Name	Visibility	Mutability	Modifiers
SafeMathInt	Library			
L	mul	Internal 🦺		
L	div	Internal 🦺		
L	sub	Internal 🦺		
L	add	Internal 🦺		
L	abs	Internal 🦺		
SafeMath	Library			
L	add	Internal 🦺		
L	sub	Internal 🦺		
L	sub	Internal 🦺		
L	mul	Internal 🦺		
L	div	Internal 🦺		
L	div	Internal 🦺		
L	mod	Internal 🖺		
			<u> </u>	

IERC20	Interface		
L	totalSupply	External	NO
L	balanceOf	External [NO
L	allowance	External	NO
L	transfer	External	NO
L	approve	External	NO
L	transferFrom	External [NO
IPancakeSwap Pair	Interface		
L	name	External [NO
L	symbol	External [NO
L	decimals	External	NO
L	totalSupply	External	NO
L	balanceOf	External	NO.
L	allowance	External	NO
L	approve	External	NO !
L	transfer	External	NO.
L	transferFrom	External [NO
L	DOMAIN_SEPARATOR	External	NO
L	PERMIT_TYPEHASH	External [NO
L	nonces	External	NO

L	permit	External		NO
L	MINIMUM_LIQUIDITY	External [NO.
L	factory	External [NO.
L	token0	External		NO.
L	token1	External		NO.
L	getReserves	External		NO.
L	price0CumulativeLast	External		NO.
L	price1CumulativeLast	External [NO.
L	kLast	External		NO.
L	mint	External [NO.
L	burn	External		NO.
L	swap	External		NO.
L	skim	External		NO.
L	sync	External		NO.
L	initialize	External		NO.
IPancakeSwap Router	Interface			
L	factory	External		NO.
L	WETH	External		NO.
L	addLiquidity	External [NO.
L	addLiquidityETH	External	u p	NO.

L	removeLiquidity	External		NO.
L	removeLiquidityETH	External		NO.
L	removeLiquidityWithPermit	External		NO.
L	removeLiquidityETHWithPermit	External		NO.
L	swapExactTokensForTokens	External		NO.
L	swapTokensForExactTokens	External		NO.
L	swapExactETHForTokens	External	9 -	NO.
L	swapTokensForExactETH	External		NO
L	swapExactTokensForETH	External [NO
L	swapETHForExactTokens	External	<u>u</u> e	NO.
L	quote	External		NO.
L	getAmountOut	External		NO.
L	getAmountIn	External		NO.
L	getAmountsOut	External		NO.
L	getAmountsIn	External		NO.
L	removeLiquidityETHSupportingFeeOnTra nsferTokens	External		NO.
L	removeLiquidityETHWithPermitSupportin gFeeOnTransferTokens	External [NO.
L	swapExactTokensForTokensSupportingF eeOnTransferTokens	External [NO.
L	swapExactETHForTokensSupportingFee OnTransferTokens	External [пÞ	NO.
L	swapExactTokensForETHSupportingFee OnTransferTokens	External		NO.

IPancakeSwap Factory	Interface		
L	feeTo	External	NO
L	feeToSetter	External .	NO
L	getPair	External	NO
L	allPairs	External	NO
L	allPairsLength	External [NO.
L	createPair	External [NO.
L	setFeeTo	External [NO.
L	setFeeToSetter	External	NO.
Ownable	Implementation		
L		Public	NO.
L	owner	Public [NO
L	isOwner	Public [NO
L	renounceOwnership	Public [onlyOwner
L	transferOwnership	Public [onlyOwner
L	_transferOwnership	Internal 🖺	
ERC20Detailed	Implementation	IERC20	
L		Public [NO.
L	name	Public	NO.

L	symbol	Public I	NO
L	decimals	Public	NO
BomberBabes	Implementation	ERC20Det ailed, Ownable	
L		Public	ERC20Det ailed Ownable
L	rebase	Internal 🦺	
L	transfer	External	validRecipi ent
L	transferFrom	External [validRecipi ent
L	_basicTransfer	Internal 🦺	
L	_transferFrom	Internal 🦺	
L	takeFee	Internal 🖺	
L	addLiquidity	Internal 🖺	swapping
L	swapBack	Internal 🦺	swapping
L	withdrawAllToMarketing	External .	swapping onlyOwner
L	shouldTakeFee	Internal 🦺	
L	shouldRebase	Internal 🖺	
L	shouldAddLiquidity	Internal 🖺	
L	shouldSwapBack	Internal 🦺	
L	setAutoRebase	External [onlyOwner

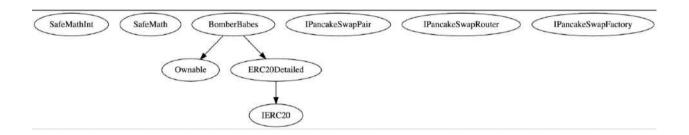
L	setAutoAddLiquidity	External	onlyOwner
L	allowance	External .	NO.
L	decreaseAllowance	External	NO.
L	increaseAllowance	External .	NO.
L	approve	External	NO.
L	checkFeeExempt	External .	NO.
L	getCirculatingSupply	Public	NO.
L	isNotInSwap	External	NO.
L	manualSync	External	NO.
L	setFeeReceivers	External	onlyOwner
L	getLiquidityBacking	Public	NO.
L	setFeeStructure	External	onlyOwner
L	setMaxSupply	External	onlyOwner
L	setRebaseRate	External .	onlyOwner
L	setWhitelist	External .	onlyOwner
L	setBotBlacklist	External	onlyOwner
L	setPairAddress	Public	onlyOwner
L	setLP	External	onlyOwner
L	totalSupply	External	NO.
L	balanceOf	External [NO.
L	isContract	Internal 🖺	

L	External	иÞ	NO

Legend

Symbol	Meaning
	Function can modify state
	Function is payable

Inheritance Hierarchy



Security issue checking status

High severity issues

No High severity issues found.

• Medium severity issues

No medium severity issues found

• Low severity issues

No low severity issues found

Centralization risk

High severity centralization issues

The owner can change all fees without maximum limit

```
ftrace | funcSig
function setFeeStructure(
   uint256 _marketingFee *,
   uint256 _developmentFee*,
   uint256 _sellFee1,
   uint256 vaultFee↑
) external onlyOwner {
   liquidityFee = _liquidityFee1;
   marketingFee = _marketingFee1;
   developmentFee = _developmentFee1;
   sellFee = _sellFee1;
   vaultFee = _vaultFee1;
   totalFee = liquidityFee.add(marketingFee).add(developmentFee).add(
       vaultFee
    );
```

Owner privileges

The owner can swap contract tokens to bnb and send them to marketing wallet

```
ftrace | funcSig
function withdrawAllToMarketing() external swapping onlyOwner {
    uint256 amountToSwap = _gonBalances[address(this)].div(
        gonsPerFragment
    ):
    require(
        amountToSwap > 0,
        "There is no token deposited in token contract"
    );
    address[] memory path = new address[](2);
    path[0] = address(this);
    path[1] = router.WETH();
    router.swapExactTokensForETHSupportingFeeOnTransferTokens(
        amountToSwap,
        0,
        path,
        marketingReceiver,
        block.timestamp
    );
```

The owner can enable/disable auto rebase

The owner can enable/disable liquidity adding

```
ftrace|funcSig
function setAutoAddLiquidity(bool _flag^) external onlyOwner {
   if (_flag^) {
        _autoAddLiquidity = _flag^;
        _lastAddLiquidityTime = block.timestamp;
   } else {
        _autoAddLiquidity = _flag^;
   }
}
```

The owner can change all fee receiver wallets

```
ftrace|funcSig
function setFeeReceivers(
    address _autoLiquidityReceiver1,
    address _marketingReceiver1,
    address _developmentReceiver1,
    address _vault1
) external onlyOwner {
    autoLiquidityReceiver = _autoLiquidityReceiver1;
    marketingReceiver = _marketingReceiver1;
    developmentReceiver = _developmentReceiver1;
    vault = _vault1;
}
```

The owner can change all fees

```
ftrace | funcSig
function setFeeStructure(
   uint256 _marketingFee 1,
   uint256 _developmentFee*,
   uint256 _sellFee1,
   uint256 _vaultFee↑
) external onlyOwner {
   liquidityFee = _liquidityFee1;
   marketingFee = _marketingFee1;
   developmentFee = _developmentFee1;
   sellFee = _sellFee1;
   vaultFee = _vaultFee1;
   totalFee = liquidityFee.add(marketingFee).add(developmentFee).add(
       vaultFee
   );
```

The owner can change max supply

```
ftrace|funcSig
function setMaxSupply(uint256 supply ) external onlyOwner {
    maxSupply = supply ;
}
```

❖ The owner can change rebase rate (this will change APY)

```
ftrace|funcSig
function setRebaseRate(uint256 rate1) external onlyOwner {
    rebaseRate = rate1;
}
```

❖ The owner can exclude wallets from fee (once exclude, cannot include again)

```
ftrace|funcSig
function setWhitelist(address _addr 1) external onlyOwner {
    _isFeeExempt[_addr 1] = true;
}
```

The owner can block/unblock contracts

```
ftrace|function
function setBotBlacklist(address _botAddress ↑, bool _flag ↑)
    external
    onlyOwner
{
    require(
        isContract(_botAddress ↑),
        "only contract address, not allowed exteranlly owned account"
    );
    blacklist[_botAddress ↑] = _flag ↑;
}
```

The owner can change pair address and pair contract

```
ftrace|funcSig
function setPairAddress(address _pairAddress  ) public onlyOwner {
   pairAddress = _pairAddress  ;
}

ftrace|funcSig
function setLP(address _address  ) external onlyOwner {
   pairContract = IPancakeSwapPair(_address  );
}
```

Audit conclusion

RugFreeCoins team has performed in-depth testings, 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: PASSED

Number of risk issues: 1

Solidity code functional issue level: PASSED

Number of owner privileges: 10

Centralization risk correlated to the active owner: HIGH

Smart contract active ownership: YES