



**TechRate**  
AUDIT COMPANY

# Smart Contract Security Audit

# Audit Details



Audited project  
**Bull Floki Inu**



Deployer address  
**0x314a56c252431593ccd71c2c206de2ff7ede3c61**



Client contacts:  
**Bull Floki Inu team**



Blockchain  
**Binance Smart Chain**



Project website:  
<https://bullfloki.com/>

# 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 below 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

TechRate was commissioned by Bull Floki Inu to perform an audit of smart contracts:

<https://bscscan.com/address/0x98268ae7544529f5b0F0E26aeB740d3EB550Bea6#code>

The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

# Contracts Details

## Token contract details for 23.09.2021

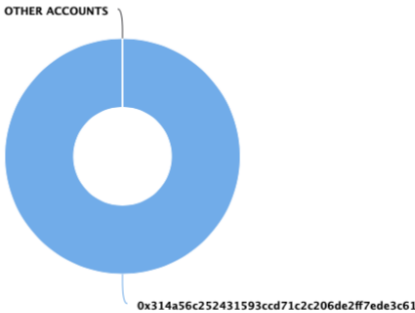
Contract name	Bull Floki Inu
Contract address	0x98268ae7544529f5b0F0E26aeB740d3EB550Bea6
Total supply	100,000,000,000
Token ticker	BULLFLOKI
Decimals	9
Token holders	1
Transactions count	1
Top 100 holders dominance	100.00%
Liquidity fee	2
Total tax fee buy	14
Total tax fee sell	18
Uniswap V2 pair	0x31506f668de3144dbd573499dda00f1b0ab8bdb2
Contract deployer address	0x314a56c252431593ccd71c2c206de2ff7ede3c61
Contract's current owner address	0x314a56c252431593ccd71c2c206de2ff7ede3c61

# Bull Floki Inu Token Distribution

The top 100 holders collectively own 100.00% (100,000,000,000.00 Tokens) of Bull Floki Inu

Token Total Supply: 100,000,000,000.00 Token | Total Token Holders: 1

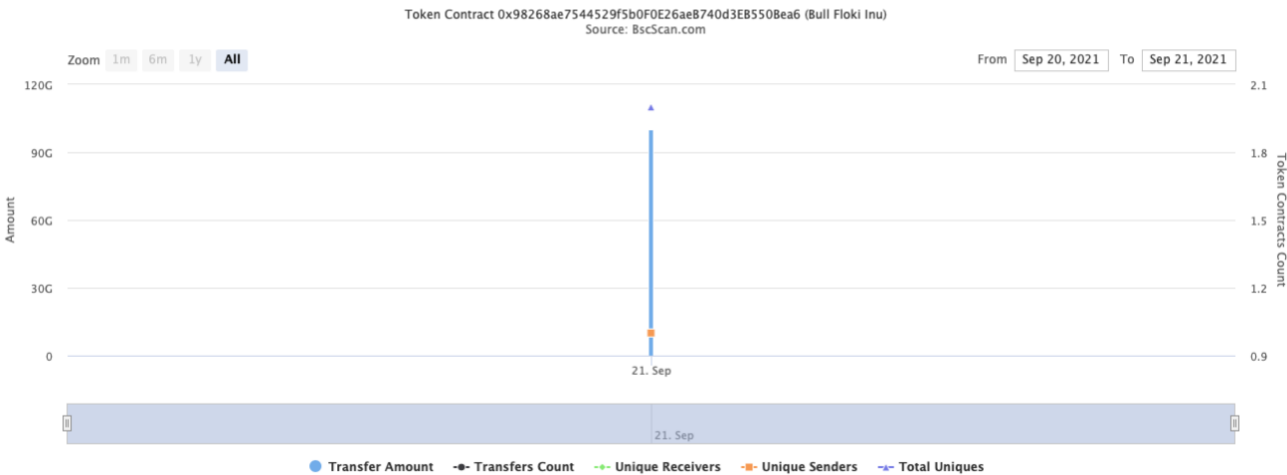
Bull Floki Inu Top 100 Token Holders  
Source: BscScan.com



(A total of 100,000,000,000.00 tokens held by the top 100 accounts from the total supply of 100,000,000,000.00 token)

# Bull Floki Inu Contract Interaction Details

Time Series: Token Contract Overview Tue 21, Sept 2021 - Tue 21, Sept 2021



# Bull Floki Inu Top 10 Token Holders

Rank	Address	Quantity (Token)	Percent
1.	0x314a56c252431593ccd71c2c206de2ff7ede3c61	100,000,000,000	100.0000%





# Contract functions details

## + Context

- [Int] \_msgSender
- [Int] \_msgData

## + [Int] IERC20

- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] transfer #
- [Ext] allowance
- [Ext] approve #
- [Ext] transferFrom #

## + [Lib] SafeMath

- [Int] add
- [Int] sub
- [Int] sub
- [Int] mul
- [Int] div
- [Int] div
- [Int] mod
- [Int] mod

## + [Lib] Address

- [Int] isContract
- [Int] sendValue #
- [Int] functionCall #
- [Int] functionCall #
- [Int] functionCallWithValue #
- [Int] functionCallWithValue #
- [Prv] \_functionCallWithValue #

## + Ownable (Context)

- [Pub] <Constructor> #
- [Pub] owner
- [Pub] renounceOwnership #
  - modifiers: onlyOwner
- [Pub] transferOwnership #
  - modifiers: onlyOwner
- [Pub] getUnlockTime
- [Pub] getTime
- [Pub] lock #
  - modifiers: onlyOwner
- [Pub] unlock #

## + [Int] IUniswapV2Factory

- [Ext] feeTo
- [Ext] feeToSetter
- [Ext] getPair
- [Ext] allPairs
- [Ext] allPairsLength
- [Ext] createPair #
- [Ext] setFeeTo #
- [Ext] setFeeToSetter #



- + [Int] IUniswapV2Pair
  - [Ext] name
  - [Ext] symbol
  - [Ext] decimals
  - [Ext] totalSupply
  - [Ext] balanceOf
  - [Ext] allowance
  - [Ext] approve #
  - [Ext] transfer #
  - [Ext] transferFrom #
  - [Ext] DOMAIN\_SEPARATOR
  - [Ext] PERMIT\_TYPEHASH
  - [Ext] nonces
  - [Ext] permit #
  - [Ext] MINIMUM\_LIQUIDITY
  - [Ext] factory
  - [Ext] token0
  - [Ext] token1
  - [Ext] getReserves
  - [Ext] price0CumulativeLast
  - [Ext] price1CumulativeLast
  - [Ext] kLast
  - [Ext] burn #
  - [Ext] swap #
  - [Ext] skim #
  - [Ext] sync #
  - [Ext] initialize #
- + [Int] IUniswapV2Router01
  - [Ext] factory
  - [Ext] WETH
  - [Ext] addLiquidity #
  - [Ext] addLiquidityETH (\$)
  - [Ext] removeLiquidity #
  - [Ext] removeLiquidityETH #
  - [Ext] removeLiquidityWithPermit #
  - [Ext] removeLiquidityETHWithPermit #
  - [Ext] swapExactTokensForTokens #
  - [Ext] swapTokensForExactTokens #
  - [Ext] swapExactETHForTokens (\$)
  - [Ext] swapTokensForExactETH #
  - [Ext] swapExactTokensForETH #
  - [Ext] swapETHForExactTokens (\$)
  - [Ext] quote
  - [Ext] getAmountOut
  - [Ext] getAmountIn
  - [Ext] getAmountsOut
  - [Ext] getAmountsIn
- + [Int] IUniswapV2Router02 (IUniswapV2Router01)
  - [Ext] removeLiquidityETHSupportingFeeOnTransferTokens #
  - [Ext] removeLiquidityETHWithPermitSupportingFeeOnTransferTokens #
  - [Ext] swapExactTokensForTokensSupportingFeeOnTransferTokens #
  - [Ext] swapExactETHForTokensSupportingFeeOnTransferTokens (\$)
  - [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens #
- + BullFloki (Context, IERC20, Ownable)

- [Pub] <Constructor> #
- [Pub] name
- [Pub] symbol
- [Pub] decimals
- [Pub] totalSupply
- [Pub] balanceOf
- [Pub] allowance
- [Pub] increaseAllowance #
- [Pub] decreaseAllowance #
- [Pub] minimumTokensBeforeSwapAmount
- [Pub] approve #
- [Prv] \_approve #
- [Pub] blacklistAddress #
  - modifiers: onlyOwner
- [Pub] setIsExcludedFromFee #
  - modifiers: onlyOwner
- [Ext] setTaxes #
  - modifiers: onlyOwner
- [Ext] setMaxTxAmount #
  - modifiers: onlyOwner
- [Ext] enableDisableWalletLimit #
  - modifiers: onlyOwner
- [Ext] setIsWalletLimitExempt #
  - modifiers: onlyOwner
- [Ext] setWalletLimit #
  - modifiers: onlyOwner
- [Ext] setNumTokensBeforeSwap #
  - modifiers: onlyOwner
- [Ext] setMarketingWalletAddress #
  - modifiers: onlyOwner
- [Ext] setbuyBackWalletAddress #
  - modifiers: onlyOwner
- [Pub] setSwapAndLiquifyEnabled #
  - modifiers: onlyOwner
- [Pub] setSwapAndLiquifyByLimitOnly #
  - modifiers: onlyOwner
- [Pub] getCirculatingSupply
- [Prv] transferToAddressETH #
- [Pub] changeRouterVersion #
  - modifiers: onlyOwner
- [Ext] <Fallback> (\$)
- [Pub] transfer #
- [Pub] transferFrom #
- [Prv] \_transfer #
- [Int] \_basicTransfer #
- [Prv] swapAndLiquify #
  - modifiers: lockTheSwap
- [Prv] swapTokensForEth #
- [Prv] addLiquidity #
- [Int] takeFee #

(\$)= payable function

# = non-constant function

# Issues Checking Status

Issue description		Checking status
1.	Compiler errors.	Passed
2.	Race conditions and Reentrancy. Cross-function race conditions.	Passed
3.	Possible delays in data delivery.	Passed
4.	Oracle calls.	Passed
5.	Front running.	Passed
6.	Timestamp dependence.	Passed
7.	Integer Overflow and Underflow.	Passed
8.	DoS with Revert.	Passed
9.	DoS with block gas limit.	Passed
10.	Methods execution permissions.	Passed
11.	Economy model of the contract.	Passed
12.	The impact of the exchange rate on the logic.	Passed
13.	Private user data leaks.	Passed
14.	Malicious Event log.	Passed
15.	Scoping and Declarations.	Passed
16.	Uninitialized storage pointers.	Passed
17.	Arithmetic accuracy.	Passed
18.	Design Logic.	Passed
19.	Cross-function race conditions.	Passed
20.	Safe Open Zeppelin contracts implementation and usage.	Passed
21.	Fallback function security.	Passed

# Security Issues

## ✓ High Severity Issues

No high severity issues found.

## ✓ Medium Severity Issues

No medium severity issues found.

## ✓ Low Severity Issues

No low severity issues found.

## Owner privileges (In the period when the owner is not renounced)

- Owner can change the buyback, marketing, external and liquidity fees.

```
function setTaxes(uint256 newLiquidityTax↑, uint256 newMarketingTax↑, uint256 newBuyBackTax↑, uint256 newExtraFeeOnSell↑) external onlyOwner() {
    _liquidityFee = newLiquidityTax↑;
    _marketingFee = newMarketingTax↑;
    _buyBackFee = newBuyBackTax↑;
    _extraFeeOnSell = newExtraFeeOnSell↑;

    _totalTaxIfBuying = _liquidityFee.add(_marketingFee).add(_buyBackFee);
    _totalTaxIfSelling = _totalTaxIfBuying.add(_extraFeeOnSell);
}
```

- Owner can change the maximum transaction amount.

```
function setMaxTxAmount(uint256 maxTxAmount↑) external onlyOwner() {
    _maxTxAmount = maxTxAmount↑;
}
```

- Owner can exclude from the fee.

```
function setIsExcludedFromFee(address account↑, bool newValue↑) public onlyOwner {
    _isExcludedFromFee[account↑] = newValue↑;
}
```

- Owner can marketing and reward wallets.

```
ftrace | funcSig
function setMarketingWalletAddress(address newAddress↑) external onlyOwner() {
    marketingWalletAddress = payable(newAddress↑);
}

ftrace | funcSig
function setbuyBackWalletAddress(address newAddress↑) external onlyOwner() {
    buyBackWalletAddress = payable(newAddress↑);
}
```

- Owner can change minimum number of tokens before swap.

```
ftrace | funcSig
function setNumTokensBeforeSwap(uint256 newLimit↑) external onlyOwner() {
    minimumTokensBeforeSwap = newLimit↑;
}
```

- Owner can change Uniswap router address.

```
ftrace | funcSig
function changeRouterVersion(address newRouterAddress↑) public onlyOwner returns(address newPairAddress↑) {
    IUniswapV2Router02 _uniswapV2Router = IUniswapV2Router02(newRouterAddress↑);

    newPairAddress↑ = IUniswapV2Factory(_uniswapV2Router.factory()).getPair(address(this), _uniswapV2Router.WETH());

    if(newPairAddress↑ == address(0)) //Create If Doesnt exist
    {
        newPairAddress↑ = IUniswapV2Factory(_uniswapV2Router.factory())
            .createPair(address(this), _uniswapV2Router.WETH());
    }

    uniswapV2Pair = newPairAddress↑; //Set new pair address
    uniswapV2Router = _uniswapV2Router; //Set new router address
}
```

- Owner can change swap and liquify settings.

```
ftrace | funcSig
function setSwapAndLiquifyEnabled(bool _enabled↑) public onlyOwner {
    swapAndLiquifyEnabled = _enabled↑;
    emit SwapAndLiquifyEnabledUpdated(_enabled↑);
}

ftrace | funcSig
function setSwapAndLiquifyByLimitOnly(bool newValue↑) public onlyOwner {
    swapAndLiquifyByLimitOnly = newValue↑;
}
```

- Owner can blacklist addresses.

```
function blacklistAddress(address account↑, bool newValue↑) public onlyOwner {
    isBlacklisted[account↑] = newValue↑;
}
```

- Owner can enable/disable wallet limit, exclude from it and change this limit value.

```
ftrace | funcSig
function enableDisableWalletLimit(bool newValue↑) external onlyOwner {
    checkWalletLimit = newValue↑;
}

ftrace | funcSig
function setIsWalletLimitExempt(address holder↑, bool exempt↑) external onlyOwner {
    isWalletLimitExempt[holder↑] = exempt↑;
}

ftrace | funcSig
function setWalletLimit(uint256 newLimit↑) external onlyOwner {
    _walletMax = newLimit↑;
}
```

- Owner can lock and unlock. By the way, using these functions the owner could retake privileges even after the ownership was renounced.

```
ftrace | funcSig
function lock(uint256 time↑) public virtual onlyOwner {
    _previousOwner = _owner;
    _owner = address(0);
    _lockTime = block.timestamp + time↑;
    emit OwnershipTransferred(_owner, address(0));
}

ftrace | funcSig
function unlock() public virtual {
    require(_previousOwner == msg.sender, "You don't have permission to unlock");
    require(block.timestamp > _lockTime, "Contract is locked until 7 days");
    emit OwnershipTransferred(_owner, _previousOwner);
    _owner = _previousOwner;
}
```

# Conclusion

Smart contracts do not contain high severity issues! Liquidity pair contract's security is not checked due to out of scope.

Liquidity locking details NOT provided by the team.

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## *TechRate note:*

*Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.*



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