



# BLOCK AUDIT REPORT

## Smart Contract Security Audit Report



**Frosty Floki V2**



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Block Audit Report Team received the FrostyFlokiV2.sol file for smart contract security audit of the Frosty Floki V2 on December 13, 2021. The following are the details and results of this smart contract security audit:

**Project Name:** Frosty Floki V2

The Contract address: 0x39d0291f0aaad6CF0b5213F7cc6DF72493692cAe

Link Address:

<https://bscscan.com/address/0x39d0291f0aaad6CF0b5213F7cc6DF72493692cAe#code>

The audit items and results:

(Other undiscovered security vulnerabilities are not included in the audit responsibility scope)

**Audit Result:** Passed

Audit Number: BAR0016313122021

Audit Date: December 13, 2021

Audit Team: Block Audit Report Team

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## Introduction

This Audit Report mainly focuses on the extensive security of Frosty Floki V2 Smart Contract. With this report, we attempt to ensure the reliability and correctness of the smart contract by complete and rigorous assessment of the system's architecture and the smart contract codebase.

## Auditing Approach and Methodologies applied

The Block Audit Report team has performed rigorous testing of the project including the analysis of the code design patterns where we reviewed the smart contract architecture to ensure it is structured along with the safe use of standard inherited contracts and libraries. Our team also conducted a formal line by line inspection of the Smart Contract i.e. a manual review, to find potential issues including but not limited to;

- **Race conditions**
- **Zero race conditions approval attacks**
- **Re-entrancy**
- **Transaction-ordering dependence**
- **Timestamp dependence**
- **Check-effects-interaction pattern (optimistic accounting)**
- **Decentralized denial-of-service attacks**
- **Secure ether transfer pattern**
- **Guard check pattern**
- **Fail-safe mode**
- **Gas-limits and infinite loops**
- **Call Stack depth**

In the Unit testing Phase, we coded/conducted custom unit tests written against each function in the contract to verify the claimed functionality from our client.

In Automated Testing, we tested the Smart Contract with our standard set of multifunctional tools to identify vulnerabilities and security flaws.

The code was tested in collaboration of our multiple team members and this included but not limited to;

- Testing the functionality of the Smart Contract to determine proper logic has been followed throughout the whole process.
- Analyzing the complexity of the code in depth and detailed, manual review of the code, line-by-line.
- Deploying the code on testnet using multiple clients to run live tests.
- Analyzing failure preparations to check how the Smart Contract performs in case of any bugs and vulnerabilities.
- Checking whether all the libraries used in the code are on the latest version.
- Analyzing the security of the on-chain data.



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## Audit Details

Project Name: Frosty Floki V2

Website/ bscscan Code (**Mainnet**):

0x39d0291f0aaad6CF0b5213F7cc6DF72493692cAe

Languages: Solidity (Smart contract)

Platforms and Tools: Remix IDE, Truffle, Ganache, Mythril, Contract Library, Slither, Dapp.Tools, Echidna, Etheno



## Audit Goals

The focus of the audit was to verify that the Smart Contract System is secure, resilient and working according to the specifications. The audit activities can be grouped in the following three categories:

### Security Sight

Identifying security related issues within each contract and the system of contract.

### Sound Architecture

Evaluation of the architecture of this system through the lens of established smart contract best practices and general software best practices, standard software design principle, design patterns and practices.

### Code Correctness and Quality

A full review of the contract source code. The primary areas of focus include:

- Accuracy
- Readability
- Usability vs Security
- Sections of code with high complexity
- Quantity and quality of test coverage

## Issue Categories

Every issue in this report was assigned a severity level from the following:

### Critical Severity Issues

Issues of this level are critical to the smart contract's performance/functionality and should be fixed before moving to a production environment.

### High level severity issues

Issues on this level are strongly suggested by the team to be fixed before moving to the production environment.

### Medium level severity issues

Issues on this level could potentially bring problems and should eventually be fixed.

### Low level severity issues

Issues on this level are minor details and warning's that can remain unfixed but would be better fixed at some point in the future.



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## Issues Checking Status

No	Issue description	Checking status
1	Compiler warnings.	Passed
2	Race conditions and Reentrancy. Cross-function race conditions.	Passed
3	Oracle calls.	Passed
4	Timestamp dependence.	Passed
5	DoS with Revert.	Passed
6	DoS with block gas limit.	Passed
7	Methods execution permissions.	Passed
8	Economy model.	Passed
9	The impact of the exchange rate on the logic.	Passed
10	Malicious Event log.	Passed
11	Scoping and Declarations.	Passed
12	Uninitialized storage pointers.	Passed
13	Arithmetic Operations accuracy.	Passed
14	Design Logic.	Passed
15	Cross-function race conditions.	Passed
16	Safe usage for Open Zeppelin module.	Passed
17	Fallback function security.	Passed
18	Send & receive ether.	Passed
19	Zero race condition approval attacks.	Passed
20	Short address attack.	Passed
21	Owner's authority to freeze.	Passed
22	Attempt to block ether flows.	Passed
23	Redundant inheritance check.	Passed
24	Silent overrides of mapping structs.	Passed
25	Function state mutability.	Passed
26	Unnecessary conversion of type.	Passed



## Used Code from other Framework/Smart Contracts (direct import)

### [+] interface IBEP20

- totalSupply()
- balanceOf(address account)
- transfer(address recipient, ...)
- allowance(address owner, add ...)
- approve(address spender, uin ...)
- transferFrom(address sender, ...)

### [+] library SafeMath

- add(uint256 a, uint256 b)
- sub(uint256 a, uint256 b)
- sub(uint256 a, uint256 b, st ...)
- mul(uint256 a, uint256 b)
- div(uint256 a, uint256 b)
- div(uint256 a, uint256 b, st ...)
- mod(uint256 a, uint256 b)
- mod(uint256 a, uint256 b, st ...)
- msgSender()
- msgData()

### [+] library Address

- isContract(address account)
- sendValue(address payable re ...)
- Call(address target, ...)
- Call(address target, ...)
- CallWithValue(addres ...)
- CallWithValue(addres ...)
- CallWithValue(addre ...)

### [+] contract Ownable is Context

- owner()
- renounceOwnership()
- transferOwnership(address ne ...)

### [+] interface IUniswapV2Factory

- feeTo()
- feeToSetter()
- getPair(address tokenA, addr ...)



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- allPairs(uint)
- allPairsLength()
- createPair(address tokenA, a ...)
- setFeeTo(address)
- setFeeToSetter(address)

## interface IUniswapV2Pair

- name()
- symbol()
- decimals()
- totalSupply()
- balanceOf(address owner)
- allowance(address owner, add ...)
- approve(address spender, uin ...)
- transfer(address to, uint va ...)
- transferFrom(address from, a ...)
- DOMAINSEPARATOR()
- PERMITTYPEHASH()
- nonces(address owner)
- permit(address owner, addres ...)
- MINIMUMLIQUIDITY()
- factory()
- token0()
- token1()
- getReserves()
- price0CumulativeLast()
- price1CumulativeLast()
- kLast()
- mint(address to)
- burn(address to)
- swap(uint amount0Out, uint a ...)
- skim(address to)
- sync()
- initialize(address, address)

## [+] interface IUniswapV2Router01

- factory()
- WETH()
- addLiquidity()



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- addLiquidityETH()
- removeLiquidity()
- removeLiquidityETH()
- removeLiquidityWithPermit()
- removeLiquidityETHWithPermit ...
- swapExactTokensForTokens()
- swapTokensForExactTokens()
- swapExactETHForTokens(uint a ...)
- swapTokensForExactETH(uint a ...)
- swapExactTokensForETH(uint a ...)
- swapETHForExactTokens(uint a ...)
- quote(uint amountA, uint res ...)
- getAmountOut(uint amountIn, ...)
- getAmountIn(uint amountOut, ...)
- getAmountsOut(uint amountIn, ...)
- getAmountsIn(uint amountOut, ...)

## [+] interface IUniswapV2Router02 is IUnis ...

- removeLiquidityETHSupporting ...
- removeLiquidityETHWithPermit ...
- swapExactTokensForTokensSupp ...
- swapExactETHForTokensSupport ...
- swapExactTokensForETHSupport ...

## [+] contract FrostyFlokiV2 is Context, ... \*

- name()
- symbol()
- decimals()
- totalSupply()
- balanceOf(address account)
- transfer(address recipient, ...)
- allowance(address owner, address spender, uint amount)
- approve(address spender, uint amount)
- transferFrom(address sender, address recipient, uint amount)
- increaseAllowance(address spender, uint amount)
- decreaseAllowance(address spender, uint amount)
- isExcludedFromReward(address account)
- totalFees()
- setAutomaticMarketMaker(address account, bool isMarketMaker, uint feeRate)



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- isAutomaticMarketMaker(addr ...)
- deliver(uint256 tAmount)
- reflectionFromToken(uint256 ...)
- tokenFromReflection(uint256 ...)
- excludeFromReward(address ac ...)
- includeInReward(address acco ...)
- excludeFromFee(address accou ...)
- includeInFee(address account ...)
- setCharityWallet(address new ...)
- setMaxTxAmount(uint256 maxT ...)
- setSwapAndLiquifyEnabled(boo ...)
- transferBothExcluded(addres ...)
- reflectFee(uint256 rFee, ui ...)
- getValues(uint256 tAmount)
- getTValues(uint256 tAmount)
- getRValues(uint256 tAmount, ...)
- getRate()
- getCurrentSupply()
- takeLiquidity(uint256 tLiqui ...)
- calculateTaxFee(uint256 amo ...)
- calculateLiquidityFee(uint25 ...)
- removeAllFee()
- restoreAllFee()
- setbuyTaxFees(uint256 taxFee ...)
- setSellTaxFees(uint256 taxFe ...)
- isExcludedFromFee(address ac ...)
- approve(address owner, addr ...)
- transfer()
- swapAndLiquify(uint256 contr ...)
- swapTokensForEth(uint256 tok ...)
- addLiquidity(uint256 tokenAm ...)
- tokenTransfer(address sende ...)
- transferStandard(address se ...)
- transferToExcluded(address ...)
- transferFromExcluded(addrres ...)



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## Manual Audit:

For this section the code was tested/read line by line by our auditors. We used Remix IDE's JavaScript VM and testnet Kovan to test the contract functionality in a simulated environment.

**e4c47b7f6a1f8e068290b27f5125a92ff3313d0755561026433d1760c3a78b76**

**File:** Frosty Fl... | **Language:** solidity | **Size:** 33567 bytes | **Date:** 2021-12-13T00:20:18.331Z

Critical	High	Medium	Low	Note
0	0	0	0	0



## Critical Severity Issues

No critical severity issues found.

## 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

- None



# Automated Audit

## Remix Compiler Warnings

It throws warnings by Solidity's compiler. If it encounters any errors the contract cannot be compiled and deployed.

The screenshot shows the Remix IDE interface with the Solidity Compiler tab selected. The sidebar on the left has icons for Headphones (Compiler), Copy (Copy), Undo (Undo), Redo (Redo), and a wrench (Settings). The main area is titled "SOLIDITY COMPILER".

- COMPILER:** Version 0.8.10+commit.fc410830. There is a checkbox for "Include nightly builds".
- LANGUAGE:** Solidity.
- EVM VERSION:** compiler default.
- COMPILER CONFIGURATION:**
  - Auto compile
  - Enable optimization (set to 200)
  - Hide warnings
- Contract:** FrostyFlokiV2 (Frosty Floki V2.sol).
- Publish on IPFS:** A button to publish the contract to IPFS.
- Compilation Details:** Buttons for ABI and Bytecode.



## 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 the client 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 the client 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 the client to conduct the client's 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 received smart contracts alone. No related/third-party smart contracts, applications or operations were reviewed for security. No product code has been reviewed.

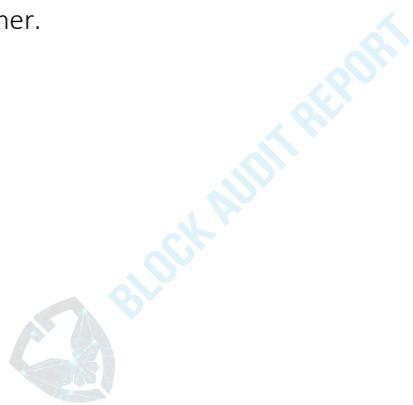


## Summary

Smart contracts received in file named: "Frosty Floki V2" do not contain any high severity issues!

**Note:**

Please read the disclaimer above and note, the audit claims NO statements or warranties on business model, investment advice/ attractiveness or code sustainability. This report is provided for the only set of contracts mentioned in the report and does not claim responsibility to include security audits for any other contracts deployed by Owner.





## BLOCK AUDIT REPORT

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