

AUDIT.



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FlokiEnergy

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FULL SMART CONTRACT AUDIT SOLIDITY CHECK

Audit SC Guarantees that every smart contract that has been audited has gone through both automated Smart Contract Scanner Softwares and is manually verified by one of our highly experienced smart contract experts.



Table of Contents

AUDIT-SC

02 ▶ Table of Contents

04 ▶ Disclaimer

06 ▶ Findings

10 ▶ Audit Results

03 ▶ Overview

05 ▶ Summary

09 ▶ Audit Details

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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OVERVIEW

PROJECT SUMMARY

Project Name **Floki Energy (FENG)**

Platform **Binance Smartchain**

Language **Solidity**

AUDIT SUMMARY

Date **03-12-2021**

Audit Type **Static Analysis, Manual Review**

Audit Result **PENDING**

RISK SUMMARY

Risk Level	Total	Found	Pending	Solved	Acknowledgde	Objected
Critical	3	3	3	0	0	0
Major	1	1	1	0	0	0
Medium	0	0	0	0	0	0
Minor	0	0	0	0	0	0
Informative	12	12	12	0	0	0
Discussion	0	0	0	0	0	0

FINDINGS

Function Default Visibility

SWC-ID: SWC-100

Relationship:

CWE-710: Improper Adherence to Coding Standards

Description:

Functions that do not have a function visibility type specified are public by default. This can lead to a vulnerability if a developer forgot to set the visibility and a malicious user is able to make unauthorized or unintended state changes or unnecessary gas usage.

Relevance:

public functions that are never called by the contract should be declared external to save gas.

Category	Risk Level	Number of Findings	Status
SWC-100	Informative	5	Pending

Constable State

SWC-ID: SWC-108

Relationship:

CWE-710: Improper Adherence to Coding Standards

Description:

Functions that do not have a function visibility type specified are public by default. This can lead to a vulnerability if a developer forgot to set the visibility and a malicious user is able to make unauthorized or unintended state changes or unnecessary gas usage.

Relevance:

public functions that are never called by the contract should be declared external to save gas.

Category	Risk Level	Number of Findings	Status
SWC-108	Informative	7	Pending



Integer Overflow

SWC-ID: SWC-101

Relationship:

CWE-682: Incorrect Calculation

Description:

An overflow/underflow happens when an arithmetic operation reaches the maximum or minimum size of a type. For instance if a number is stored in the uint8 type, it means that the number is stored in a 8 bits unsigned number ranging from 0 to 2^8-1 . In computer programming, an integer overflow occurs when an arithmetic operation attempts to create a numeric value that is outside of the range that can be represented with a given number of bits – either larger than the maximum or lower than the minimum representable value. In the case of FlokiEnergy, the `setMaxWalletPercent()` function is realistically vulnerable to unexpected behavior as a result of an integer underflow or overflow.

Category	Risk Level	Number of Findings	Status
SWC-101	Major	1	Pending

Unauthorized Access

Relationship:

CWE-284: Improper Access Control

The constructor sets the `owner` as Authorized address with `authorizations[_owner] = true`; Upon transferring ownership, the owner address is changed, but the authorization of the previous owner is not lifted, leaving unexpected access control to the previous owner.

Remediation:

Make sure that all access control is properly managed

Category	Risk Level	Number of Findings	Status
Access Control	Critical	1	Pending

Reentrancy

SWC-ID: SWC-107

Relationship:

CWE-841: Improper Enforcement of behavioral Workflow

Description:

One of the major dangers of calling external contracts is that they can take over the control flow. In the reentrancy attack (a.k.a. recursive call attack), a malicious contract calls back into the calling contract before the first invocation of the function is finished. This may cause the different invocations of the function to interact in undesirable ways.

Relevance:

In the [transferFrom\(\)](#) function, state variables are written before function calls. When interacting with an address that holds arbitrary code, the function's state writing may be called multiple times before the function body ends, resulting in lost funds.

Remediation:

Make sure all internal state changes are performed before the call is executed. This is known as the Checks-Effects-Interactions pattern. You can also use a reentrancy lock/guard.

Category	Risk Level	Number of Findings	Status
SWC-107	Critical	1	Pending

Unchecked Ownership Transfer

Relationship:

CWE-284: Improper Access Control

The [transferOwnership\(\)](#) function send the ownership to an arbitrary address without checking if the receiving address is able to receive it. This may result in permanent loss of the ownership of the token contract with no way of retrieving it.

Remediation:

Make sure that the receiving address accepts the ownership before ownership is transferred.

Category	Risk Level	Number of Findings	Status
Access Control	Critical	1	Pending

AUDIT DETAILS

SCW-100 Function Default Visibility

authorize(address) should be declared external

unauthorize(address) should be declared external:

transferOwnership(address) should be declared external:

tradingStatus() should be declared external:

cooldownEnabled(bool) should be declared external

SCW-108 Constable State

DividendDistributor.WBNB should be constant

DividendDistributor.dividendsPerShareAccuracyFactor should be constant

FlokiEnergy.DEAD should be constant

FlokiEnergy.ETH should be constant

FlokiEnergy.WBNB should be constant

FlokiEnergy.ZERO should be constant

FlokiEnergy.launchedAt should be constant

AUDIT RESULT

Basic Coding Bugs

1. Constructor Mismatch

o Description: Whether the contract name and its constructor are not identical to each other.

o Result: PASSED

o Severity: Critical

Ownership Takeover

o Description: Whether the set owner function is not protected.

o Result: FAILED

o Severity: Critical

Redundant Fallback Function

o Description: Whether the contract has a redundant fallback function.

o Result: PASSED

o Severity: Critical

Overflows & Underflows

Description: Whether the contract has general overflow or underflow

Vulnerabilities

o Result: FAILED

o Severity: Critical

Reentrancy

o Description: Reentrancy is an issue when code can call back into your contract and change state, such as withdrawing ETHs.

o Result: FAILED

o Severity: Critical

MONEY-Giving Bug

o Description: Whether the contract returns funds to an arbitrary address.

o Result: PASSED

o Severity: High

Blackhole

o Description: Whether the contract locks ETH indefinitely; merely in without out.

o Result: PASSED

o Severity: High

Unauthorized Self-Destruct

o Description: Whether the contract can be killed by any arbitrary address.

o Result: PASSED

o Severity: Medium

Revert DoS

o Description: Whether the contract is vulnerable to DoS attack because of unexpected revert.

o Result: PASSED

o Severity: Medium

Unchecked External Call

o Description: Whether the contract has any external call without checking the return value.

o Result: PASSED

o Severity: Medium

Gasless Send

o Description: Whether the contract is vulnerable to gasless send.

o Result: PASSED

o Severity: Medium

Send Instead of Transfer

o Description: Whether the contract uses send i

o Result: PASSED

o Severity: Medium

Costly Loop

o Description: Whether the contract has any costly loop which may lead to Out-Of-Gas exception.

o Result: PASSED

o Severity: Medium

(Unsafe) Use of Untrusted Libraries

o Description: Whether the contract use any suspicious libraries.

o Result: PASSED

o Severity: Medium

(Unsafe) Use of Predictable Variables

o Description: Whether the contract contains any randomness variable, but its value can be predicated.

o Result: PASSED

o Severity: Medium

Transaction Ordering Dependence

o Description: Whether the final state of the contract depends on the order of the transactions.

o Result: PASSED

o Severity: Medium

. Deprecated Uses

o Description: Whether the contract use the deprecated tx.origin to perform the authorization.

o Result: PASSED

o Severity: Medium

AUDIT.



CONTACTUS

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