



# CFG NINJA AUDITS

Security Assessment

**Flokita CEO Contract**

April 27, 2023

Audit Status: Pass

Audit Edition: Pinksale



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**BLADE POOL**

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# Assessment Summary

This report has been prepared for Flokita CEO Contract on the Binance Smart Chain network. CFGNINJA provides both client-centered and user-centered examination of the smart contracts and their current status when applicable. This report represents the security assessment made to find issues and vulnerabilities on the source code along with the current liquidity and token holder statistics of the protocol.

A comprehensive examination has been performed, utilizing Cross Referencing, Static Analysis, In-House Security Tools, and line-by-line Manual Review.

The auditing process pays special attention to the following considerations:

- Testing the smart contracts against both common and uncommon attack vectors.
- Inspecting liquidity and holders statistics to inform the current status to both users and client when applicable.
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Verifying contract functions that allow trusted and/or untrusted actors to mint, lock, pause, and transfer assets.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders
- Thorough line-by-line manual review of the entire codebase by industry experts.



# Project Overview

## Token Summary

Parameter	Result
Address	0x76d1f1eB044D3209066ff1d97662742B015f1C3F
Name	Flokita CEO
Token Tracker	Flokita CEO (FLOKITA)
Decimals	18
Supply	10,000,000,000
Platform	Binance Smart Chain
compiler	v0.8.17+commit.8df45f5f
Contract Name	FlokitaCEO
Optimization	Yes with 200 runs
LicenseType	MIT
Language	Solidity
Codebase	<a href="https://bscscan.com/address/0x76d1f1eB044D3209066ff1d97662742B015f1C3F#code">https://bscscan.com/address/0x76d1f1eB044D3209066ff1d97662742B015f1C3F#code</a>
Payment Tx	0x7c01448176f2e9c940183803a4b648038cc99df24f0b796575b3ddf549ebe89f



# Project Overview

## Risk Analysis Summary

Parameter	Result
Buy Tax	4%
Sale Tax	4%
Is honeypot?	Clean
Is CoolDown?	undefined
Can edit tax?	Yes
Is anti whale?	No
Is blacklisted?	No
Is whitelisted?	No
Holders	1
Confidence Level	Medium

The following quick summary it's added to the project overview; however, there are more details about the audit and its results. Please read every detail.



# Project Overview

## Simulation Summary

Parameter	Result
Transfer From Owner	Pass
Transfer From Holder	Pass
Add Liquidity	Pass
Buy from Owner	Pass
Buy from Holder	Pass
Remove Liquidity	Pass
SwapAndLiquify	Pass
RemoveLiquidity	Pass
LaunchPad	PinkSale

The following quick summary it's added to the project overview; however, there are more details about the audit and its results. Please read every detail.



## Main Contract Assessed Contract Name

Name	Contract	Live
Flokita CEO	0x76d1f1eB044D3209066ff1d97662742B015f1C3F	Yes

## TestNet Contract Assessed Contract Name

Name	Contract	Live
Flokita CEO	0x048d3e87F6eaBb3EECe6C622D50c38030d317C44	Yes

## Solidity Code Provided

SolID	File Sha-1	FileName
FlokitaCEO	a217d76a80c0f4fe979ca42f7d9b00afbddd8ab0f	FlokitaCEO.Sol



# Mint Check

**The project owners of Flokita CEO do not have a mint function in the contract, owner cannot mint tokens after initial deploy.**

**The Project has a Total Supply of 10,000,000,000 and cannot mint any more than the Max Supply.**

Mint Notes:

Auditor Notes:

Project Owner Notes:





# Fees Check

**The project owners of Flokita CEO do not have the ability to set fees higher than 6 .**

**The team May have fees defined; however, they can't set those fees higher than 6 or may not be able to configure the same.**

**Tax Fee Notes:**

**Auditor Notes:** The contract currently has 4% buy and 4% sale taxes, and cannot be set higher than 6% buy and 6% sale.

**Project Owner Notes:**

**Fees Can Be Changed up to a maximum of 25%**



# Blacklist Check

**The project owners of Flokita CEO do not have a blacklist function their contract.**

**The Project allow owners to transfer their tokens without any restrictions.**

**Token owner cannot blacklist the contract: Malicious or compromised owners can trap contracts relying on tokens with a blacklist.**

Blacklist Notes:

Auditor Notes:

Project Owner Notes:



# MaxTx Check

**The Project Owners of Flokita CEO cannot set max tx amount**

**The Team allows any investors to swap, transfer or sell their total amount if needed.**

MaxTX Notes:

Auditor Notes:

Project Owner Notes:

**Project Has No MaxTX**



# Pause Trade Check

**The Project Owners of Flokita CEO don't have the ability to stop or pause trading.**

**The Team has done a great job to avoid stop trading, and investors has the ability to trade at any given time without any problems**

Pause Trade Notes:

Auditor Notes:

Project Owner Notes: .

Owner can't pause trading



# Contract Ownership

The contract ownership of Flokita CEO is not currently renounced. The ownership of the contract grants special powers to the protocol creators, making them the sole addresses that can call sensible ownable functions that may alter the state of the protocol.

The current owner is the address  
0x6f6f0e1d2eb71f9bbc045d8a23951aaa2bbac0d8  
which can be viewed:  
[HERE](#)

The owner wallet has the power to call the functions displayed on the privileged functions chart below, if the owner's wallet is compromised, they could exploit these privileges.

We recommend the team renounce ownership at the right time, if possible, or gradually migrate to a timelock with governing functionalities regarding transparency and safety considerations.

We recommend the team use a Multisignature Wallet if the contract is not going to be renounced; this will give the team more control over the contract.



# Liquidity Ownership

The token does not have liquidity at the moment of the audit, block 27687624

If liquidity is unlocked, then the token developers can do what is infamously known as 'rugpull'. Once investors start buying token from the exchange, the liquidity pool will accumulate more and more coins of established value (e.g., ETH or BNB or Tether). This is because investors are basically sending these tokens of value to the exchange, to get the new token. Developers can withdraw this liquidity from the exchange, cash in all the value and run off with it. Liquidity is locked by renouncing the ownership of liquidity pool (LP) tokens for a fixed time period, by sending them to a time-lock smart contract. Without ownership of LP tokens, developers cannot get liquidity pool funds back. This provides confidence to the investors that the token developers will not run away with the liquidity money. It is now a standard practice that all token developers follow, and this is what really differentiates a scam coin from a real one.

[Read More](#)





# KYC Information

**The Project Owners of Flokita CEO have provided KYC Documentation.**

**KYC Certificated can be found on the Following:**  
**KYC Data**

**KYC Information Notes:**

**Auditor Notes:** KYC to be completed by PinkSale, project will be a SAFU Project.

**Project Owner Notes:**





# Smart Contract Vulnerability Checks

The Smart Contract Weakness Classification Registry (SWC Registry) is an implementation of the weakness classification scheme proposed in EIP-1470. It is loosely aligned to the terminologies and structure used in the Common Weakness Enumeration (CWE) while overlaying a wide range of weakness variants that are specific to smart contracts.

ID	Severity	Name	File	location
SWC-100	Pass	Function Default Visibility	FlokitaCEO.Sol	L: 0 C: 0
SWC-101	Pass	Integer Overflow and Underflow.	FlokitaCEO.Sol	L: 0 C: 0
SWC-102	Pass	Outdated Compiler Version file.	FlokitaCEO.Sol	L: 0 C: 0
SWC-103	Pass	A floating pragma is set.	FlokitaCEO.Sol	L: 0 C: 0
SWC-104	Pass	Unchecked Call Return Value.	FlokitaCEO.Sol	L: 0 C: 0
SWC-105	Pass	Unprotected Ether Withdrawal.	FlokitaCEO.Sol	L: 0 C: 0
SWC-106	Pass	Unprotected SELFDESTRUCT Instruction	FlokitaCEO.Sol	L: 0 C: 0
SWC-107	Pass	Read of persistent state following external call.	FlokitaCEO.Sol	L: 0 C: 0
SWC-108	Pass	State variable visibility is not set..	FlokitaCEO.Sol	L: 0 C: 0
SWC-109	Pass	Uninitialized Storage Pointer.	FlokitaCEO.Sol	L: 0 C: 0
SWC-110	Pass	Assert Violation.	FlokitaCEO.Sol	L: 0 C: 0



ID	Severity	Name	File	location
SWC-111	Pass	Use of Deprecated Solidity Functions.	FlokitaCEO.Sol	L: 0 C: 0
SWC-112	Pass	Delegate Call to Untrusted Callee.	FlokitaCEO.Sol	L: 0 C: 0
SWC-113	Pass	Multiple calls are executed in the same transaction.	FlokitaCEO.Sol	L: 0 C: 0
SWC-114	Pass	Transaction Order Dependence.	FlokitaCEO.Sol	L: 0 C: 0
SWC-115	Pass	Authorization through tx.origin.	FlokitaCEO.Sol	L: 0 C: 0
SWC-116	Pass	A control flow decision is made based on The block.timestamp environment variable.	FlokitaCEO.Sol	L: 0 C: 0
SWC-117	Pass	Signature Malleability.	FlokitaCEO.Sol	L: 0 C: 0
SWC-118	Pass	Incorrect Constructor Name.	FlokitaCEO.Sol	L: 0 C: 0
SWC-119	Pass	Shadowing State Variables.	FlokitaCEO.Sol	L: 0 C: 0
SWC-120	Pass	Potential use of block.number as source of randonmness.	FlokitaCEO.Sol	L: 0 C: 0
SWC-121	Pass	Missing Protection against Signature Replay Attacks.	FlokitaCEO.Sol	L: 0 C: 0
SWC-122	Pass	Lack of Proper Signature Verification.	FlokitaCEO.Sol	L: 0 C: 0
SWC-123	Pass	Requirement Violation.	FlokitaCEO.Sol	L: 0 C: 0
SWC-124	Pass	Write to Arbitrary Storage Location.	FlokitaCEO.Sol	L: 0 C: 0
SWC-125	Pass	Incorrect Inheritance Order.	FlokitaCEO.Sol	L: 0 C: 0



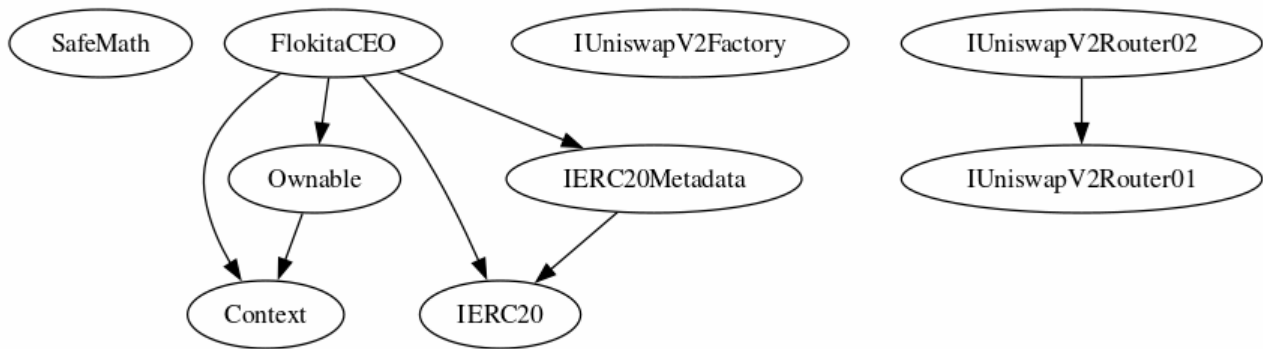
ID	Severity	Name	File	location
SWC-126	Pass	Insufficient Gas Griefing.	FlokitaCEO.Sol	L: 0 C: 0
SWC-127	Pass	Arbitrary Jump with Function Type Variable.	FlokitaCEO.Sol	L: 0 C: 0
SWC-128	Pass	DoS With Block Gas Limit.	FlokitaCEO.Sol	L: 0 C: 0
SWC-129	Pass	Typographical Error.	FlokitaCEO.Sol	L: 0 C: 0
SWC-130	Pass	Right-To-Left-Override control character (U+202E).	FlokitaCEO.Sol	L: 0 C: 0
SWC-131	Pass	Presence of unused variables.	FlokitaCEO.Sol	L: 0 C: 0
SWC-132	Pass	Unexpected Ether balance.	FlokitaCEO.Sol	L: 0 C: 0
SWC-133	Pass	Hash Collisions with Multiple Variable Length Arguments.	FlokitaCEO.Sol	L: 0 C: 0
SWC-134	Pass	Message call with hardcoded gas amount.	FlokitaCEO.Sol	L: 0 C: 0
SWC-135	Pass	Code With No Effects (Irrelevant/Dead Code).	FlokitaCEO.Sol	L: 0 C: 0
SWC-136	Pass	Unencrypted Private Data On-Chain.	FlokitaCEO.Sol	L: 0 C: 0

We scan the contract for additional security issues using MYTHX and industry-standard security scanning tools.



# Inheritance

The contract for Flokita CEO has the following inheritance structure.



## Privileged Functions (onlyOwner)

Please Note if the contract is Renounced none of this functions can be executed.

Function Name	Parameters	Visibility
renounceOwnership		Public
transferOwnership	address newOwner	Public
setFees		External
setTaxAddress	address _nativeTokenAddress, address _farmAddress	External
setFeeExempt	address _address, bool _value	External
setSwapTokens	uint _swapTokensAt, uint _lastSwap, uint _delay	External
manualSendBUSD		External
withdrawAnyToken	address payable _to, IERC20 _token	Public



# Smart Contract Advance Checks



ID	Severity	Name	Result	Status
FLOKITA-01	Minor	Potential Sandwich Attacks.	Pass	Not-Found
FLOKITA-02	Minor	Function Visibility Optimization	Fail	Pending
FLOKITA-03	Minor	Lack of Input Validation.	Fail	Pending
FLOKITA-04	Major	Centralized Risk In addLiquidity.	Pass	Pending
FLOKITA-05	Minor	Missing Event Emission.	Fail	Pending
FLOKITA-06	Minor	Conformance with Solidity Naming Conventions.	Pass	Resolved
FLOKITA-07	Minor	State Variables could be Declared Constant.	Pass	Not-Found
FLOKITA-08	Minor	Dead Code Elimination.	Pass	Not-Found
FLOKITA-09	Major	Third Party Dependencies.	Pass	Not-Found
FLOKITA-10	Major	Initial Token Distribution.	Fail	Pending
FLOKITA-11	Major	multiTransfer is present within the contract.	Pass	Not-Found
FLOKITA-12	Major	Centralization Risks In The X Role	Pass	Resolved
FLOKITA-13	Informational	Extra Gas Cost For User..	Fail	Pending
FLOKITA-14	Medium	Unnecessary Use Of SafeMath	Pass	Not-Found
FLOKITA-15	Medium	Symbol Length Limitation due to Solidity Naming Standards.	Pass	Not-Found



ID	Severity	Name	Result	Status
FLOKITA-16	Medium	Invalid collection of Taxes during Transfer.	Pass	Not-Found



## FLOKITA-02 | Function Visibility Optimization.

Category	Severity	Location	Status
Gas Optimization	 Minor	FlokitaCEO.Sol: 563, 14	 Pending

### Description

The following functions are declared as public and are not invoked in any of the contracts contained within the projects scope:

Function Name	Parameters	Visibility
txFees		internal
_totalSupply		Internal
withdrawAnyToken		public

The functions that are never called internally within the contract should have external visibility

### Remediation

We advise that the function's visibility specifiers are set to external, and the array-based arguments change their data location from memory to calldata, optimizing the gas cost of the function.



### References:

external vs public best practices.





## FLOKITA-03 | Lack of Input Validation.

Category	Severity	Location	Status
Volatile Code	 Minor	FlokitaCEO.Sol: 706,14	 Pending

### Description

The given input is missing the check for the non-zero address.

The given input is missing the check for the  
setTaxAddress,setSwapTokens>manualSendBUSD,withdrawAnyToken is missing  
required function.

### Remediation



We advise the client to add the check for the passed-in values to prevent unexpected errors as below:

```
...  
require(receiver != address(0), "Receiver is the zero address");  
...  
...  
require(value X limitation, "Your not able to do this function");  
...
```

We also recommend customer to review the following function that is missing a required validation. setTaxAddress,setSwapTokens>manualSendBUSD,withdrawAnyToken is missing required function.



# FLOKITA-05 | Missing Event Emission.

Category	Severity	Location	Status
Volatile Code	 Minor	FlokitaCEO.Sol: 706, 14	 Pending

## Description



Detected missing events for critical arithmetic parameters. There are functions that have no event emitted, so it is difficult to track off-chain changes. The linked code does not create an event for the transfer.

## Remediation

Emit an event for critical parameter changes. It is recommended emitting events for the sensitive functions that are controlled by centralization roles.



## FLOKITA-10 | Initial Token Distribution.

Category	Severity	Location	Status
Centralization / Privilege	 Major	FlokitaCEO.Sol: 160,6	 Pending

### Description

All of the Flokita CEO tokens are sent to the contract deployer when deploying the contract. This could be a centralization risk as the deployer can distribute tokens without obtaining the consensus of the community.

### Remediation



We recommend the team to be transparent regarding the initial token distribution process, and the team shall make enough efforts to restrict the access of the private key.

### Project Action

```
emit Transfer(address(0), msg.sender, _totalSupply);
```



## FLOKITA-13 | Extra Gas Cost For User.

Category	Severity	Location	Status
Logical Issue	 Informational	FlokitaCEO.Sol: 995, 13	 Pending

### Description

The user may trigger a tax distribution during the transfer process, which will cost a lot of gas and it is unfair to let a single user bear it.

### Remediation

We advise the client to make the owner responsible for the gas costs of the tax distribution.






### Project Action

is declared public








# Technical Findings Summary

## Classification of Risk

Severity	Description
 Critical	Risks are those that impact the safe functioning of a platform and must be addressed before launch. Users should not invest in any project with outstanding critical risks.
 Major	Risks can include centralization issues and logical errors. Under specific circumstances, these major risks can lead to loss of funds and/or control of the project.
 Medium	Risks may not pose a direct risk to users' funds, but they can affect the overall functioning of a platform
 Minor	Risks can be any of the above but on a smaller scale. They generally do not compromise the overall integrity of the Project, but they may be less efficient than other solutions.
 Informational	Errors are often recommended to improve the code's style or certain operations to fall within industry best practices. They usually do not affect the overall functioning of the code.

## Findings

Severity	Found	Pending	Resolved
 Critical	0	0	0
 Major	1	0	0
 Medium	0	0	0
 Minor	2	0	0
 Informational	2	0	0
Total	5	0	0



# Social Media Checks

Social Media	URL	Result
Twitter	<a href="https://twitter.com/flokitaceo">https://twitter.com/flokitaceo</a>	Pass
Other	<a href="https://flokitaceos-whitepaper.gitbook.io/flokita-ceo/flokita-ceo-whitepaper">https://flokitaceos-whitepaper.gitbook.io/flokita-ceo/flokita-ceo-whitepaper</a>	Pass
Website	<a href="http://flokitaceo.com">http://flokitaceo.com</a>	Pass
Telegram	<a href="https://t.me/flokitaceo">https://t.me/flokitaceo</a>	Pass

We recommend to have 3 or more social media sources including a completed working websites.

**Social Media Information Notes:**

**Auditor Notes:** undefined

**Project Owner Notes:**



# Assessment Results

## Score Results

Review	Score
Overall Score	97/100
Auditor Score	85/100
Review by Section	Score
Manual Scan Score	45/51
SWC Scan Score	37 /37
Advance Check Score	15 /18

The Following Score System Has been Added to this page to help understand the value of the audit, the maximum score is 100, however to attain that value the project must pass and provide all the data needed for the assessment. Our Passing Score has been changed to 80 Points, if a project does not attain 80% is an automatic failure. Read our notes and final assessment below.

## Audit Passed



## Assessment Results

### Important Notes:

- No issues or vulnerabilities were found.
- We recommend addressing identified items.
- Always DOYR.

**Auditor Score =85**  
**Audit Passed**





# Appendix

## Finding Categories

### Centralization / Privilege

Centralization / Privilege findings refer to either feature logic or implementation of components that act against the nature of decentralization, such as explicit ownership or specialized access roles in combination with a mechanism to relocate funds.

### Gas Optimization

Gas Optimization findings do not affect the functionality of the code but generate different, more optimal EVM opcodes resulting in a reduction on the total gas cost of a transaction.

### Logical Issue

Logical Issue findings detail a fault in the logic of the linked code, such as an incorrect notion on how block.timestamp works.

### Control Flow

Control Flow findings concern the access control imposed on functions, such as owner-only functions being invoke-able by anyone under certain circumstances.

### Volatile Code

Volatile Code findings refer to segments of code that behave unexpectedly on certain edge cases that may result in a vulnerability.

### Coding Style

Coding Style findings usually do not affect the generated byte-code but rather comment on how to make the codebase more legible and, as a result, easily maintainable.

### Inconsistency

Inconsistency findings refer to functions that should seemingly behave similarly yet contain different code, such as a constructor assignment imposing different requirements on the input variables than a setter function.

### Coding Best Practices

ERC 20 Coding Standards are a set of rules that each developer should follow to ensure the code meets a set of criteria and is readable by all the developers.



## Disclaimer

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