



# CFG NINJA AUDITS

Security Assessment

**PANCAKEBOT Token**

July 29, 2023

Audit Status: Pass, Critical items

Audit Edition: Advanced













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**BLADE POOL**

# Risk Analysis


















## Classifications of Manual Risk Results

Classification	Description
 Critical	Danger or Potential Problems.
 High	Be Careful or Fail test.
 Low	Pass, Not-Detected or Safe Item.
 Informational	Function Detected

## Manual Code Review Risk Results

Contract Privilege	Description
 Buy Tax	1%
 Sale Tax	1%
 Cannot Sale	Pass
 Cannot Sale	Pass
 Max Tax	20%
 Modify Tax	Yes
 Fee Check	Pass
 Is Honeygot?	Not Detected
 Trading Cooldown	Not Detected
 Can Pause Trade?	Detected, Owner need to enable trade.



Contract Priviledge	Description
 Pause Transfer?	Detected,Owner need to enable trade.
 Max Tx?	Pass
 Is Anti Whale?	Not Detected
 Is Anti Bot?	Not Detected
 Is Blacklist?	Not Detected
 Blacklist Check	Pass
 is Whitelist?	Not Detected
 Can Mint?	Pass
 Is Proxy?	Not Detected
 Can Take Ownership?	Not Detected
 Hidden Owner?	Not Detected
 Owner	0xcd7c4cd35ed63124e6b4ba3ab05fe42cd20d7c9f
 Self Destruct?	Not Detected
 External Call?	Not Detected
 Other?	Not Detected
 Holders	1
 Auditor Confidence	low

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

## Token Summary

Parameter	Result
Address	0x86759AFAB7dD6C67eC4C29fa9d15Ec4932c9935D
Name	PANCAKEBOT
Token Tracker	PANCAKEBOT (PANCAKEBOT)
Decimals	9
Supply	420,690,000,000,000
Platform	Binance Smart Chain
compiler	v0.8.17+commit.8df45f5f
Contract Name	PANCAKEBOT
Optimization	Yes with 200 runs
LicenseType	MIT
Language	Solidity
Codebase	<a href="https://bscscan.com/token/0x86759AFAB7dD6C67eC4C29fa9d15Ec4932c9935D#code">https://bscscan.com/token/0x86759AFAB7dD6C67eC4C29fa9d15Ec4932c9935D#code</a>
Payment Tx	Corporate



## Main Contract Assessed

### Contract Name

Name	Contract	Live
PANCAKEBOT	0x86759AFAB7dD6C67eC4C29fa9d15Ec4932c9935D	Yes

## TestNet Contract was Not Assessed

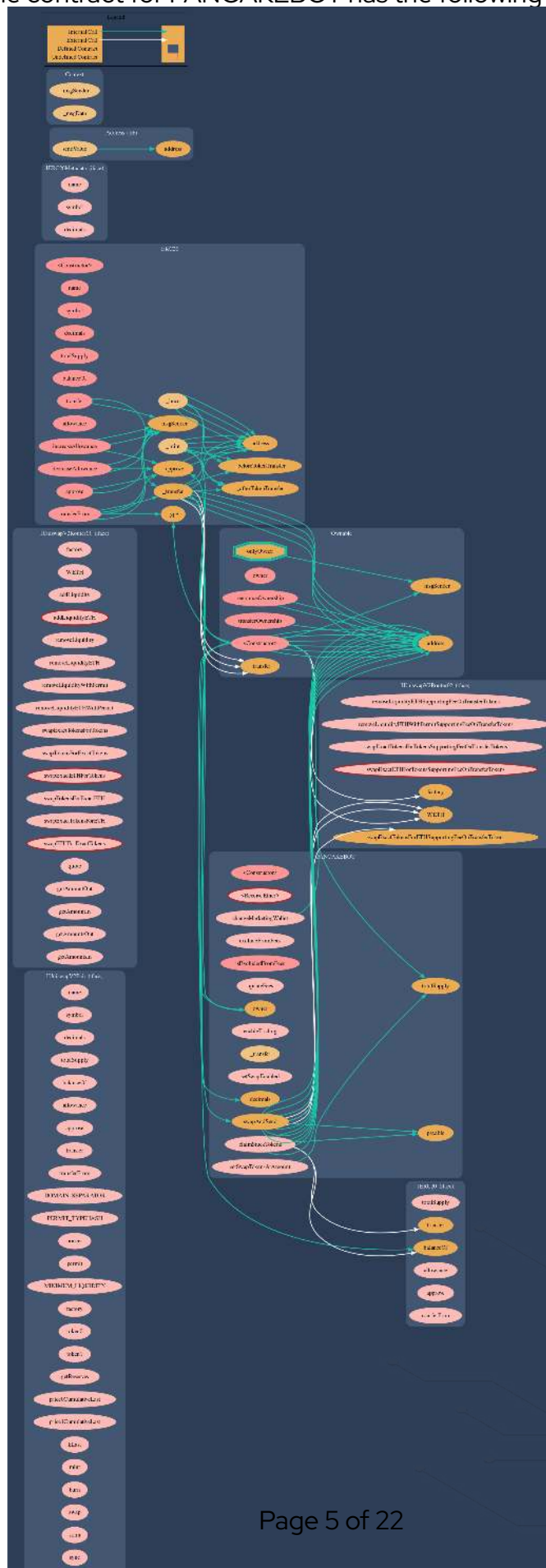
### Solidity Code Provided

SolidID	File Sha-1	FileName
PANCAKEBOT	a09c1c7906415abe57b050ef149f02f4677f1a2c	PANCAKEBOT.sol
PANCAKEBOT		
PANCAKEBOT		
PANCAKEBOT		



# Call Graph

The contract for PANCAKEBOT has the following call graph structure.



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





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





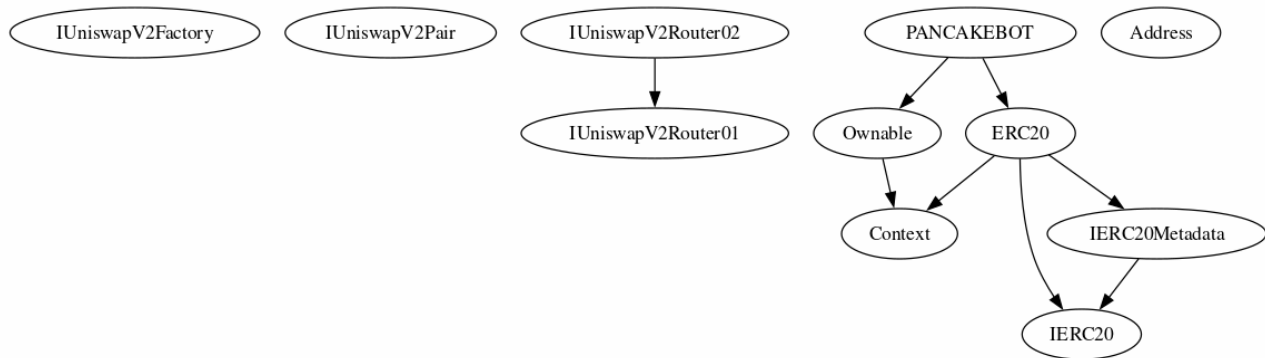
ID	Severity	Name	File	location
SWC-126	Pass	Insufficient Gas Griefing.	PANCAKEBOT.sol	L: 0 C: 0
SWC-127	Pass	Arbitrary Jump with Function Type Variable.	PANCAKEBOT.sol	L: 0 C: 0
SWC-128	Pass	DoS With Block Gas Limit.	PANCAKEBOT.sol	L: 0 C: 0
SWC-129	Pass	Typographical Error.	PANCAKEBOT.sol	L: 0 C: 0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



# Smart Contract Advance Checks



ID	Severity	Name	Result	Status
PANCAKEB OT-01	Low	Potential Sandwich Attacks.	Pass	Not Detected
PANCAKEB OT-02	Informational	Function Visibility Optimization	Pass	Not Detected
PANCAKEB OT-03	Low	Lack of Input Validation.	Pass	Not Detected
PANCAKEB OT-04	High	Centralized Risk In addLiquidity.	Pass	Not Detected
PANCAKEB OT-05	Low	Missing Event Emission.	Fail	Not Detected
PANCAKEB OT-06	Low	Conformance with Solidity Naming Conventions.	Pass	Not Detected
PANCAKEB OT-07	Low	State Variables could be Declared Constant.	Pass	Not Detected
PANCAKEB OT-08	Low	Dead Code Elimination.	Pass	Not Detected
PANCAKEB OT-09	High	Third Party Dependencies.	Pass	Not Detected
PANCAKEB OT-10	High	Initial Token Distribution.	Pass	Not Detected
PANCAKEB OT-11	High	claimStuckTokens can claim own tokens.	Pass	Not Detected
PANCAKEB OT-12	High	Centralization Risks In The X Role	Pass	Not Detected
PANCAKEB OT-13	Informational	Extra Gas Cost For User..	Fail	Detected



ID	Severity	Name	Result	Status
PANCAKEB OT-14	Medium	Unnecessary Use Of SafeMath	Pass	Not Detected
PANCAKEB OT-15	Medium	Symbol Length Limitation due to Solidity Naming Standards.	Pass	Not Detected
PANCAKEB OT-16	Medium	Taxes can be up to 100%	Pass	Not Detected
PANCAKEB OT-17	Logical Issue	Highly Permissive Role Access.`,`	Pass	Not Detected
PANCAKEB OT-18	Critical	Stop Transactions by using Enable Trade.	Fail	Detected



# PANCAKEBOT-05 | Missing Event Emission.

Category	Severity	Location	Status
Volatile Code	 Low	PANCAKEBOT.sol: L: 558 C: 14	 Not Detected

## 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.



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

Category	Severity	Location	Status
Logical Issue	 Informational	PANCAKEBOT.sol: L: 578, C: 0	 Detected

### 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





## PANCAKEBOT-18 | Stop Transactions by using Enable Trade.

Category	Severity	Location	Status
Logical Issue	 Critical	PANCAKEBOT.sol: L: 611 C: 0	 Detected

### Description

Enable Trade is present on the following contract and when combined with Exclude from fees it can be considered a whitelist process, this will allow anyone to trade before others and can represent an issue for the holders.

### Remediation






We recommend the project owner to carefully review this function and avoid problems when performing both actions.

### Project Action








# 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.
 High	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
 Low	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	1	0	0
 High	0	0	0
 Medium	0	0	0
 Low	1	0	0
 Informational	1	0	0
Total	3	0	0



# Social Media Checks

Social Media	URL	Result
Twitter	<a href="https://twitter.com/pancakebotxyz?s=21">https://twitter.com/pancakebotxyz?s=21</a>	Pass
Other		Fail
Website	<a href="https://pancakebot.vip">https://pancakebot.vip</a>	Pass
Telegram	<a href="https://t.me/AITomPro">https://t.me/AITomPro</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	86/100
Auditor Score	83/100
Review by Section	Score
Manual Scan Score	19/33
SWC Scan Score	37 /37
Advance Check Score	30 /30

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:

- SWC did not return any vulnerabilities.
- Code is used in multiple projects and has been audited before.
- The contract has enable trade, we requested a project to enable it and haven't respond.
- Please DYOR on the project.

**Auditor Score =83**  
**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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