

HEXNINJA

AUDITS



Security Assessment

Pinklock V02

June 13, 2022

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Audit Summary

This report has been prepared for Pinklock V02 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.



Project Overview

Token Summary

Parameter	Result
Address	0x407993575c91ce7643a4d4ccacc9a98c36ee1bbe
Name	Pinklock V02
Token Tracker	Pinklock V02 ()
Decimals	
Supply	
Platform	Binance Smart Chain
compiler	v0.8.4+commit.c7e474f2
Contract Name	PinkLock02
Optimization	Yes with 200 runs
LicenseType	MIT
Language	Solidity
Codebase	https://bscscan.com/address/0x407993575c91ce7643a4d4ccacc9a98c36ee1bbe#code
Payment Tx	



Main Contract Assessed Contract Name

Name	Contract	Live
Pinklock V02	0x407993575c91ce7643a4d4ccacc9a98c36ee1bbe	Yes

TestNet Contract Assessed Contract Name

Name	Contract	Live
Pinklock V02	0x5E5b9bE5fd939c578ABE5800a90C566eeEbA44a5	Yes

Solidity Code Provided

SolID	File Sha-1	FileName
PinkLock02	5f9e2fcfbf516ae6b2cc7eb2ca0e8a05e4d83eef	PinkLock02.sol
PinkLock02	6391c52f7e4f51a5d03e3ff572e8cd31f1db8389	IPinkLock.sol
PinkLock02	c86fbb48b129731b35b5abc2735b74dfe352771f	IUniswapV2Router02.sol
PinkLock02	4b7c6118e4e82a72b85d8300836fc5b625a2f976	IUniswapV2Pair.sol
PinkLock02	06e8660aef40961bb7d3b1e35172d5a344220039	IUniswapV2Factory.sol



Smart Contract Vulnerability Checks

Vulnerability	Automatic Scan	Manual Scan	Result
Unencrypted Private Data On-Chain	Complete	Complete	Low / No Risk
Code With No Effects	Complete	Complete	Low / No Risk
Message call with hardcoded gas amount	Complete	Complete	Low / No Risk
Hash Collisions With Multiple Variable Length Arguments	Complete	Complete	Low / No Risk
Unexpected Ether balance	Complete	Complete	Low / No Risk
Presence of unused variables	Complete	Complete	Low / No Risk
Right-To-Left-Override control character (U+202E)	Complete	Complete	Low / No Risk
Typographical Error	Complete	Complete	Low / No Risk
DoS With Block Gas Limit	Complete	Complete	Low / No Risk
Arbitrary Jump with Function Type Variable	Complete	Complete	Low / No Risk
Insufficient Gas Griefing	Complete	Complete	Low / No Risk
Incorrect Inheritance Order	Complete	Complete	Low / No Risk
Write to Arbitrary Storage Location	Complete	Complete	Low / No Risk
Requirement Violation	Complete	Complete	Low / No Risk
Missing Protection against Signature Replay Attacks	Complete	Complete	Low / No Risk



Contract Ownership

The contract ownership of Pinklock V02 has been renounced.

Having no owner means that all the ownable functions in the contract can not be called by anyone, this often leads to more trust on the project.



KYC Information

The Project Owners of Pinklock V02 has provided KYC Documentation.

KYC Certificated can be found on the Following:
[KYC Data](#)

KYC Information Notes:

Auditor Notes: Pinksale Team details can be found on their website.

Project Owner Notes:



Mythx Security Summary Checks

ID	Severity	Name	File	location
SWC-100	Pass	Function Default Visibility	PinkLock02.sol	L: 0 C: 0
SWC-101	Pass	Integer Overflow and Underflow.	PinkLock02.sol	L: 0 C: 0
SWC-102	Pass	Outdated Compiler Version file.	PinkLock02.sol	L: 0 C: 0
SWC-103	Pass	A floating pragma is set.	PinkLock02.sol	L: 5 C: 0
SWC-104	Pass	Unchecked Call Return Value.	PinkLock02.sol	L: 0 C: 0
SWC-105	Pass	Unprotected Ether Withdrawal.	PinkLock02.sol	L: 0 C: 0
SWC-106	Pass	Unprotected SELFDESTRUCT Instruction	PinkLock02.sol	L: 0 C: 0
SWC-107	Pass	Read of persistent state following external call.	PinkLock02.sol	L: 0 C: 0
SWC-108	Pass	State variable visibility is not set..	PinkLock02.sol	L: 0 C: 0
SWC-109	Pass	Uninitialized Storage Pointer.	PinkLock02.sol	L: 0 C: 0
SWC-110	Pass	Assert Violation.	PinkLock02.sol	L: 0 C: 0
SWC-111	Pass	Use of Deprecated Solidity Functions.	PinkLock02.sol	L: 0 C: 0
SWC-112	Pass	Delegate Call to Untrusted Callee.	PinkLock02.sol	L: 0 C: 0
SWC-113	Pass	Multiple calls are executed in the same transaction.	PinkLock02.sol	L: 0 C: 0



ID	Severity	Name	File	location
SWC-114	Pass	Transaction Order Dependence.	PinkLock02.sol	L: 0 C: 0
SWC-115	Pass	Authorization through tx.origin.	PinkLock02.sol	L: 474 C: 15
SWC-116	Pass	A control flow decision is made based on The block.timestamp environment variable.	PinkLock02.sol	L: 0 C: 0
SWC-117	Pass	Signature Malleability.	PinkLock02.sol	L: 0 C: 0
SWC-118	Pass	Incorrect Constructor Name.	PinkLock02.sol	L: 0 C: 0
SWC-119	Pass	Shadowing State Variables.	PinkLock02.sol	L: 0 C: 0
SWC-120	Pass	Potential use of block.number as source of randomness.	PinkLock02.sol	L: 0 C: 0
SWC-121	Pass	Missing Protection against Signature Replay Attacks.	PinkLock02.sol	L: 0 C: 0
SWC-122	Pass	Lack of Proper Signature Verification.	PinkLock02.sol	L: 0 C: 0
SWC-123	Pass	Requirement Violation.	PinkLock02.sol	L: 0 C: 0
SWC-124	Pass	Write to Arbitrary Storage Location.	PinkLock02.sol	L: 0 C: 0
SWC-125	Pass	Incorrect Inheritance Order.	PinkLock02.sol	L: 0 C: 0
SWC-126	Pass	Insufficient Gas Griefing.	PinkLock02.sol	L: 0 C: 0
SWC-127	Pass	Arbitrary Jump with Function Type Variable.	PinkLock02.sol	L: 0 C: 0
SWC-128	Pass	DoS With Block Gas Limit.	PinkLock02.sol	L: 0 C: 0



ID	Severity	Name	File	location
SWC-129	Pass	Typographical Error.	PinkLock02.sol	L: 0 C: 0
SWC-130	Pass	Right-To-Left-Override control character (U+202E).	PinkLock02.sol	L: 0 C: 0
SWC-131	Pass	Presence of unused variables.	PinkLock02.sol	L: 0 C: 0
SWC-132	Pass	Unexpected Ether balance.	PinkLock02.sol	L: 0 C: 0
SWC-133	Pass	Hash Collisions with Multiple Variable Length Arguments.	PinkLock02.sol	L: 0 C: 0
SWC-134	Pass	Message call with hardcoded gas amount.	PinkLock02.sol	L: 0 C: 0
SWC-135	Pass	Code With No Effects (Irrelevant/Dead Code).	PinkLock02.sol	L: 0 C: 0
SWC-136	Pass	Unencrypted Private Data On-Chain.	PinkLock02.sol	L: 0 C: 0

We scan the contract for additional security issues using MYTHX and industry standard security scanning tool



Security Check Details Page

SWC Information Notes:

Auditor Notes: No Vulnerability was found during the scan.

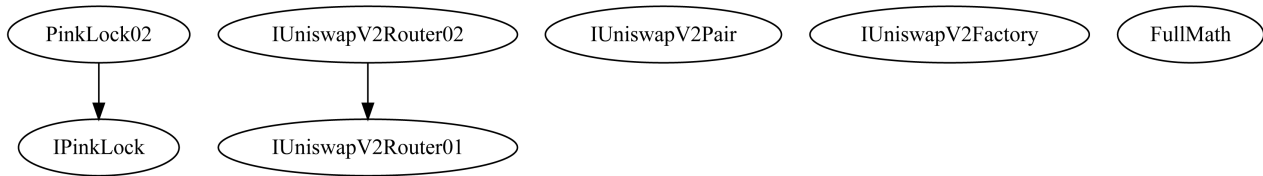
Project Owner Notes: Team Ack



Call Graph and Inheritance

The contract for Pinklock V02 has the following call graph structure

The Project has a Total Supply of and has the following inheritance



Privileged Functions (onlyOwner)

Function Name	Parameters	Visibility
none	none	none



Important Notes To The Users:

- PinkSale is the number one Launchpad on the Crypto space, and they have the most trusted and dedicated team
- We had the opportunity to review their PinkLock02 and the contract is live and very secure.
- No high-risk Exploits/Vulnerabilities Were Found in the Source Code.
- We review the code and scan it for best practices, we have made suggestions to the team and they have addressed all of them.

Audit Passed



Social Media Checks

Social Media	URL	Result
Twitter	https://twitter.com/pinkecosystem	Pass
Medium	https://medium.com/@pinkmoonfinance	Pass
Website	https://www.pinksale.finance/pinklock/liquidity?chain=BSC	Pass
Telegram	https://t.me/pinkecosystem	Pass

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

Social Media Information Notes:

Auditor Notes: PinkSale is the #1 Launchpad and their social media engagement is outstanding.

Project Owner Notes:



Disclaimer

CFGNINJA has conducted an independent audit to verify the integrity of and highlight any vulnerabilities or errors, intentional or unintentional, that may be present in the codes that were provided for the scope of this audit. This audit report does not constitute agreement, acceptance or advocacy for the Project that was audited, and users relying on this audit report should not consider this as having any merit for financial advice in any shape, form or nature. The contracts audited do not account for any economic developments that may be pursued by the Project in question, and that the veracity of the findings thus presented in this report relate solely to the proficiency, competence, aptitude and discretion of our independent auditors, who make no guarantees nor assurance that the contracts are completely free of exploits, bugs, vulnerabilities or deprecation of technologies.

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