

Smart Contract Security Audit Report

Kripton P

August 2022



Audit Details



Audited project Kripton P



Deployer address

0xB3B05F0c16b95b9984CD592De9610935D4B63487



Client contacts

Kripton P team



Blockchain

Binance Smart chain



Website

https://lpkdefi.com/

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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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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

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Procedure

Step 1 - In-Depth Manual Review

Manual line-by-line code reviews to ensure the logic behind each function is sound and safe from various attack vectors. This is the most important and lengthy portion of the audit process (as automated tools often cannot find the nuances that lead to exploits such as flash loan attacks).

Step 2 - Automated Testing

Simulation of a variety of interactions with your Smart Contract on a test blockchain leveraging a combination of automated test tools and manual testing to determine if any security vulnerabilities exist.

Step 3 – Leadership Review

The engineers assigned to the audit will schedule meetings with our leadership team to review the contracts, any comments or findings, and ask questions to further apply adversarial thinking to discuss less common attack vectors.

Step 4 - Resolution of Issues

Consulting with the team to provide our recommendations to ensure the code's security and optimize its gas efficiency, if possible. We assist project team's in resolving any outstanding issues or implementing our recommendations.

Step 5 - Published Audit Report

Boiling down results and findings into an easy-to-read report tailored to the project. Our audit reports highlight resolved issues and any risks that exist to the project or its users, along with any remaining suggested remediation measures. Diagrams are included at the end of each report to help users understand the interactions which occur within the project.

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Background

HackSafe was commissioned by Kripton P to perform an audit of smart contracts:

• https://bscscan.com/address/0xd1a10ec19f1097c82429c47b3ca75d03ff71f708#code

The purpose of the audit was to achieve the

- Ensutre that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

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Contract Details

Token contract details for 12.08.2022

Token Type	: BEP20
Contract name	: TeamToken
Contract address	: 0xD1a10eC19f1097c82429C47b3CA75D03fF71F708
Compiler version	: v0.6.12+commit.27d51765
Total supply	: 750,000,000
Token Ticker	: LPKP
Decimals	: 18
Token Holders	: 4
Transactions count	: 6
Contract deployer address	: 0xB3B05F0c16b95b9984CD592De9610935D4B63487
Owner address	: No owner

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Social profiles

Twitter profile	: https://twitter.com/lpkripton
Telegram Profile	: https://t.me/KriptonLPK
Github Profile	: https://github.com/lpkripton
LinkedIN Profile	: https://www.linkedin.com/company/l-pesa-group-of- companies
Facebook Profile:	: https://www.facebook.com/Lpkripton

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Audit Summary

According to the standard audit assessment, Customer`s solidity smart contracts are "Secure". This token contract does not contain owner control, which do make it fully decentralized as owner does not have control over smart contract.

Insecure Poor secured Secure Well-secured

You are here

We used various tools like Slither, Mythril and Remix IDE. At the same time this finding is based on critical analysis of the manual audit. All issues found during automated analysis were manually reviewed and applicable vulnerabilities are presented in the issues checking status.

We found 0 critical, 0 high, 0 medium and 1 low and some very low-level issues. These issues are not critical ones.

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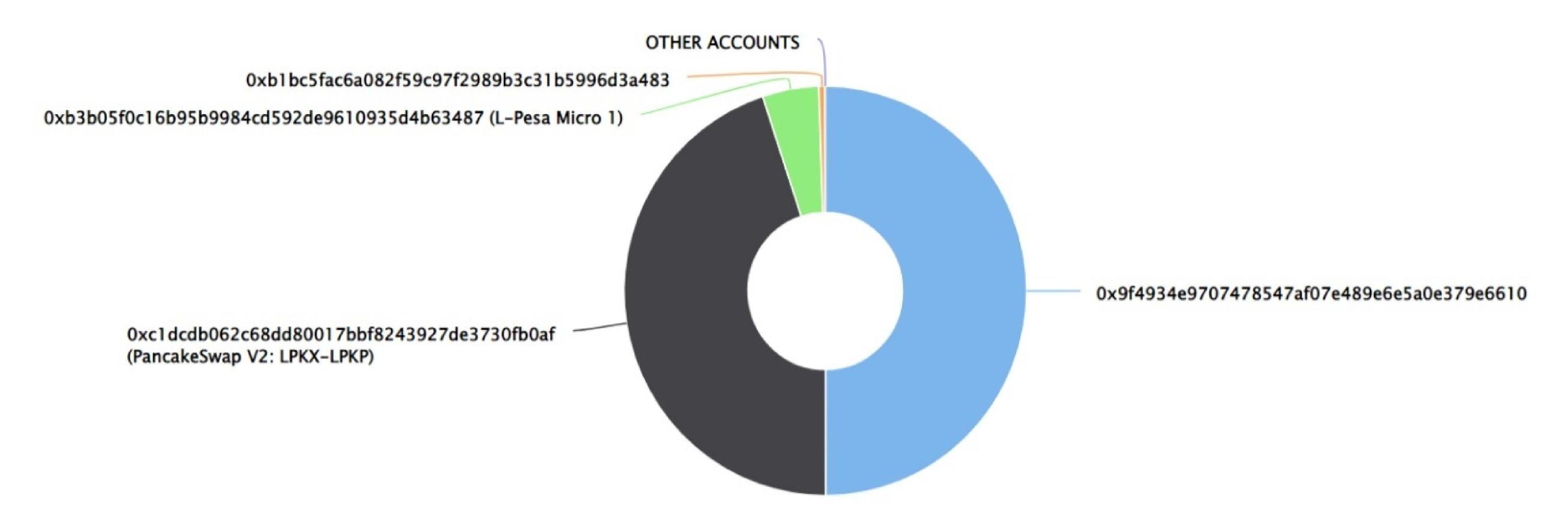
Kripton P Token Distribution

The top 100 holders collectively own 100.00% (750,000,000.00 Tokens) of Kripton P

▼ Token Total Supply: 750,000,000.00 Token | Total Token Holders: 4

Kripton P Top 100 Token Holders

Source: BscScan.com



Kripton P Token Top 04 Token Holders

(A total of 750,000,000.00 tokens held by the top 100 accounts from the total supply of 750,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	①x9f4934e9707478547af07e489e6e5a0e379e6610	374,880,158.310991142351613037	49.9840%
2	PancakeSwap V2: LPKX-LPKP	337,400,279.472955770849948793	44.9867%
3	L-Pesa Micro 1	33,969,562.21605308679843817	4.5293%
4	0xb1bc5fac6a082f59c97f2989b3c31b5996d3a483	3,750,000	0.5000%

Kripton P Token Distribution

Kripton P Token Contract Overview



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Contract functions details

```
TeamToken.sol
+ TeamToken (ERC20)
    -[Pub] < constructor>
    -[Pub] decimals
    -[Pub] burn #
Context.sol
+ Context
    -[Int] _msgSender
    -[Int] _msgData
ERC20.sol
+ ERC20 (Context, IERC20)
    -[Pub] < constructor>
    -[Pub] name
    -[Pub] symbol
    -[Pub] decimals
    -[Pub] totalSupply
    -[Pub] balanceOf
    -[Pub] transfer #
    -[Pub] allowance
    -[Pub] approve #
    -[Pub] transferFrom #
    -[Pub] increaseAllowance
    -[Pub] decreaseAllowance
    -[Int] _transfer #
    -[Int] _mint #
    -[Int] _burn #
    -[Int] _approve #
    -[Int] _setupDecimals #
    -[Int] _beforeTokenTransfer
IERC20.sol
+ [Int] IERC20
    -[Ext] totalSupply
    -[Ext] balanceOf
    -[Ext] transfer
    -[Ext] allowance
    -[Ext] approve
    -[Ext] transferFrom
```

Contract functions details

```
SafeMath.sol
+[Lib] SafeMath
    -[Int] tryAdd
    -[Int] trySub
    -[Int] tryMul
    -[Int] tryDiv
    -[Int] tryMod
    -[Int] add
    -[Int] sub
    -[Int] mul
    -[Int] div
    -[Int] mod
    -[Int] sub
    -[Int] div
    -[Int] mod
($) = payable function
# = non-constant function
```

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Issues Checking Status

No.	Title	Status
1.	Unlocked Compiler Version	Low issue
2.	Missing Input Validation	Passed
3.	Race conditions and Reentrancy. Cross-function race conditions.	Passed
4.	Possible delays in data delivery	Passed
5.	Oracle calls.	Passed
6.	Timestamp dependence.	Passed
7.	Integer Overflow and Underflow	Passed
8.	DoS with Revert.	Passed
9.	DoS with block gas limit.	Passed
10.	Methods execution permissions.	Passed
11.	Economy model of the contract.	Passed
12.	Private use data leaks.	Passed
13.	Malicious Event log.	Passed
14.	Scoping and Declarations.	Passed
15.	Uninitialized storage pointers.	Passed
16.	Arithmetic accuracy.	Passed
17.	Design Logic.	Passed
18.	Safe Open Zeppelin contracts implementation and usage.	Passed
19.	Incorrect Naming State Variable	Passed
20.	Too old version	Passed

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Severity Definitions

Risk Level	Description
Critical	Critical vulnerabilities are usually straightforward to exploit and can lead to assets loss or data manipulations.
High	High-level vulnerabilities are difficult to exploit; however, they also have a significant impact on smart contract execution, e.g., public access to crucial functions
Medium	Medium-level vulnerabilities are important to fix; however, they can't lead to assets loss or data manipulations.
Low	Low-level vulnerabilities are mostly related to outdated, unused, etc. code snippets that can't have a significant impact on execution.

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Security Issues

Critical Severity Issues No critical severity issue found.

High Severity IssuesNo high severity issue found.

Medium Severity IssuesNo medium severity issues found.

Low Severity IssuesOne low severity issue found.

1. Unlocked Compiler Version.

Description

The contract utilizes an unlocked compiler version. An unlocked compiler version in the contract's source code permits the user to compile it at or above a particular version. This, in turn, leads to differences in the generated bytecode between compilations due to differing compiler version numbers. This can lead to ambiguity when debugging as compiler-specific bugs may occur in the codebase that would be difficult to identify over a span of multiple compiler versions rather than a specific one.

Recommendation

It is advisable that the compiler version is alternatively locked at the lowest version possible so that the contract can be compiled. For example, for version >=0.6.2 < 0.8.0 the contract should contain the following line:

pragma solidity 0.6.12;

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Conclusion

Smart contract contains low severity issues! The further transfer and operations with the fund raised are not related to this particular contract.

HackSafe note: Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.

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