



Shibance KCC

Smart Contract Security Audit

Date 17/July/2021

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 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.

Purpose

This document details ApeAudits' findings and recommended solutions. We performed a diff audit, which means we audited only the changes made to the original contracts (as the Shibance contracts are heavily based on PancakeSwap and ApeSwap contracts). This audit was performed on July 17, 2021. The contracts we audited are linked below. We also checked each contract's dependencies (such as libraries and external interfaces), which are listed in the explorer links. We audited only the links listed here.

Contract name(s)	Address
KWoofVault	https://explorer.kcc.io/en/address/0x5ce1e2f6c99afcbb6e640354837c263ec3a5664
Timelock	https://explorer.kcc.io/en/address/0x86b734c7a31f6e97453aa8892db99b455216859f
SupportBoi	https://explorer.kcc.io/en/address/0xe35a1619319bbfa5bf985e4ca14964210774ab31
MasterBoi	https://explorer.kcc.io/en/address/0x1ae33198c47799e9333bbcd74cd3ab80dc03d283
DoggyPound	https://explorer.kcc.io/en/address/0xc72b04864ae423cd97f83e49d53b76b5937de8c8
KWoofToken	https://explorer.kcc.io/en/address/0x192f72efd1009d90b0e6f82ff27a0a2389f803e5
ShibanceRouter + ShibanceLibrary	https://explorer.kcc.io/en/address/0x4844e701f85e2a5a4270ee8afd3f00dcfd4b8f5a
ShibanceFactory + ShibancePair + ShibanceERC20	https://explorer.kcc.io/en/address/0x1adb92364888c9a65e65c287dae48032681327c8

Findings

NO.	Audit Items	Audit Subclass	Audit Subclass Result
1	Overflow Audit	N/A	Passed
2	Race Conditions Audit	N/A	Passed
3	Authority Control Audit	Permission Vulnerability Audit Excessive Auditing Authority	Passed Passed
4	Safe Design Audit	Zeppelin Module Safe Compiler Version Hard-coded Version Fallback Function Safeuse Show Coding Security Function Return Value Security Call Function Security	Passed Passed Passed Passed Passed Passed Passed
5	Denial of Service Audit	N/A	Passed
6	Gas Optimization Audit	N/A	Passed
7	Design Logic Audit	N/A	Passed
8	Malicious Event Log Audit	N/A	Passed
9	"False Deposit" Vulnerability Audit	N/A	Passed
10	Uninitialized Storage Pointers Audit	N/A	Passed
11	Arithmetic Accuracy Deviation Audit	N/A	Passed

High Severity Issues

- None.

Medium Severity Issues

- None.

Low Severity Issues

- **Issue:**
The Syrup exploit was unpatched and left in the code. However, the developers are aware of this and have stated that they will not give the DOGGYPOUND token any utility.

Recommendation:

The best course of action would be to patch the exploit or remove the vulnerable code entirely, but there will be no issue with keeping the code as long as the developers do not give DOGGYPOUND any value.

Conclusion

No severe issues found. However, in the current state, the Syrup exploit has been left in. As long as the developers do not use DOGGYPOUND, this will not be an issue.

ApeAudits note:

Please check the disclaimer above and note, the audit is provided 'as-is' and makes no statements or warranties whatsoever. The report is provided only for the contract(s) mentioned in the report.

Appendix

All supporting files can be found at
<https://github.com/ApeAudits1/shibance-kcc-extras>