

Smart Contract Security Audit Report

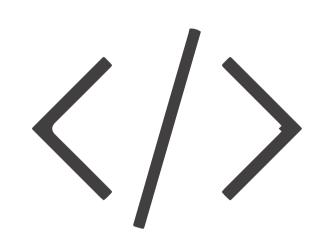
December 2022

Audit Details

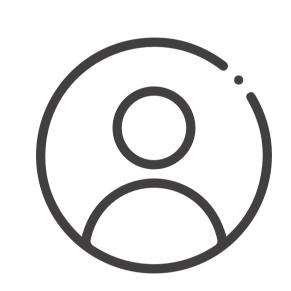


Audited project

KAN

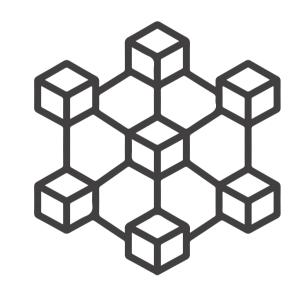


Deployer address0x56f152a248f61794c8be4314e98e6ed8e54dcce9



Client contacts

KAN Team



Blockchain

Ethereum



Website

Not provided

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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 KAN to perform an audit of smart contracts:

• https://etherscan.io/token/0x1410434b0346f5be678d0fb554e5c7ab620f8f4a#code

The purpose of the audit was to achieve the following:

- Ensure 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 15.12.2022

Token Type	: DEFI
Contract name	: KanCoin
Contract address	: 0x1410434b0346f5bE678d0FB554E5c7ab620f8f4a
Total supply	: 10,000,000
Token ticker	: KAN
Decimals	: 18
Token Holders	: 54,587
Transactions count	: 100,197
Compiler version	: v0.4.18+commit.9cf6e910
Contract deployer address	: 0x56f152a248f61794c8be4314e98e6ed8e54dcce9
Owner address	: 0x56f152A248F61794C8bE4314E98e6eD8E54dccE9

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Audit Summary

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

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 2 low.

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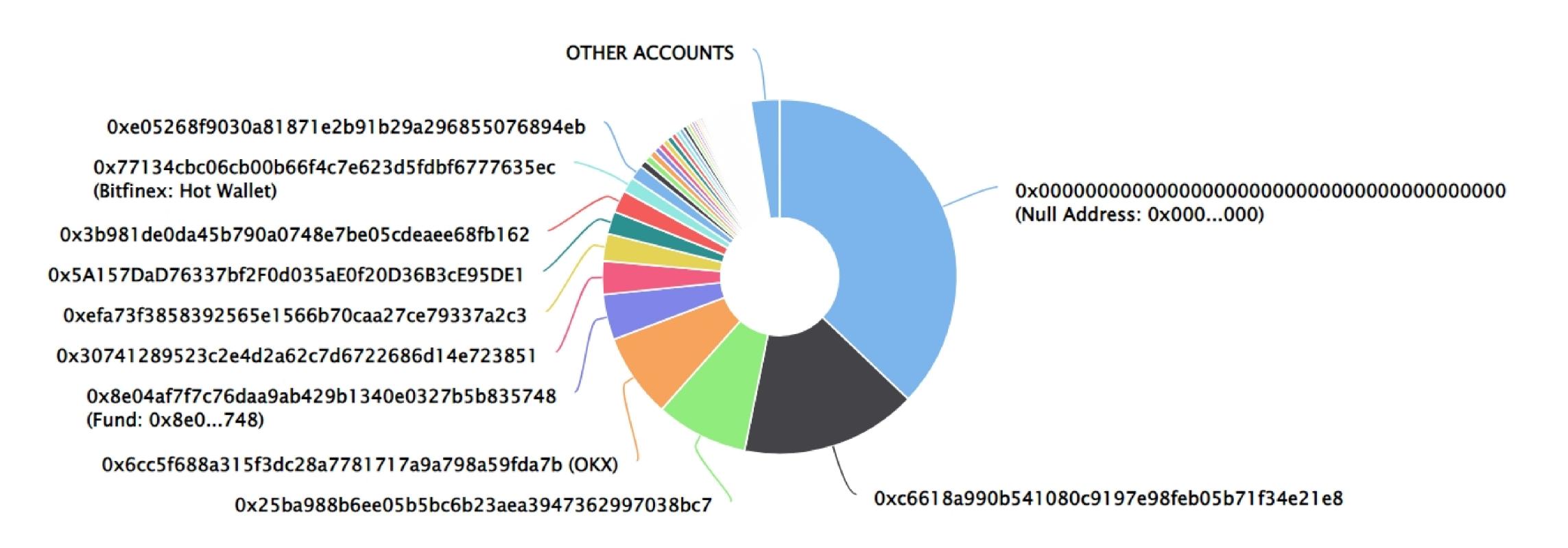
KAN Token Distribution

The top 100 holders collectively own 97.40% (9,740,015,987.94 Tokens) of KAN

▼ Token Total Supply: 10,000,000,000.00 Token | Total Token Holders: 54,587

KAN Top 100 Token Holders

Source: Etherscan.io



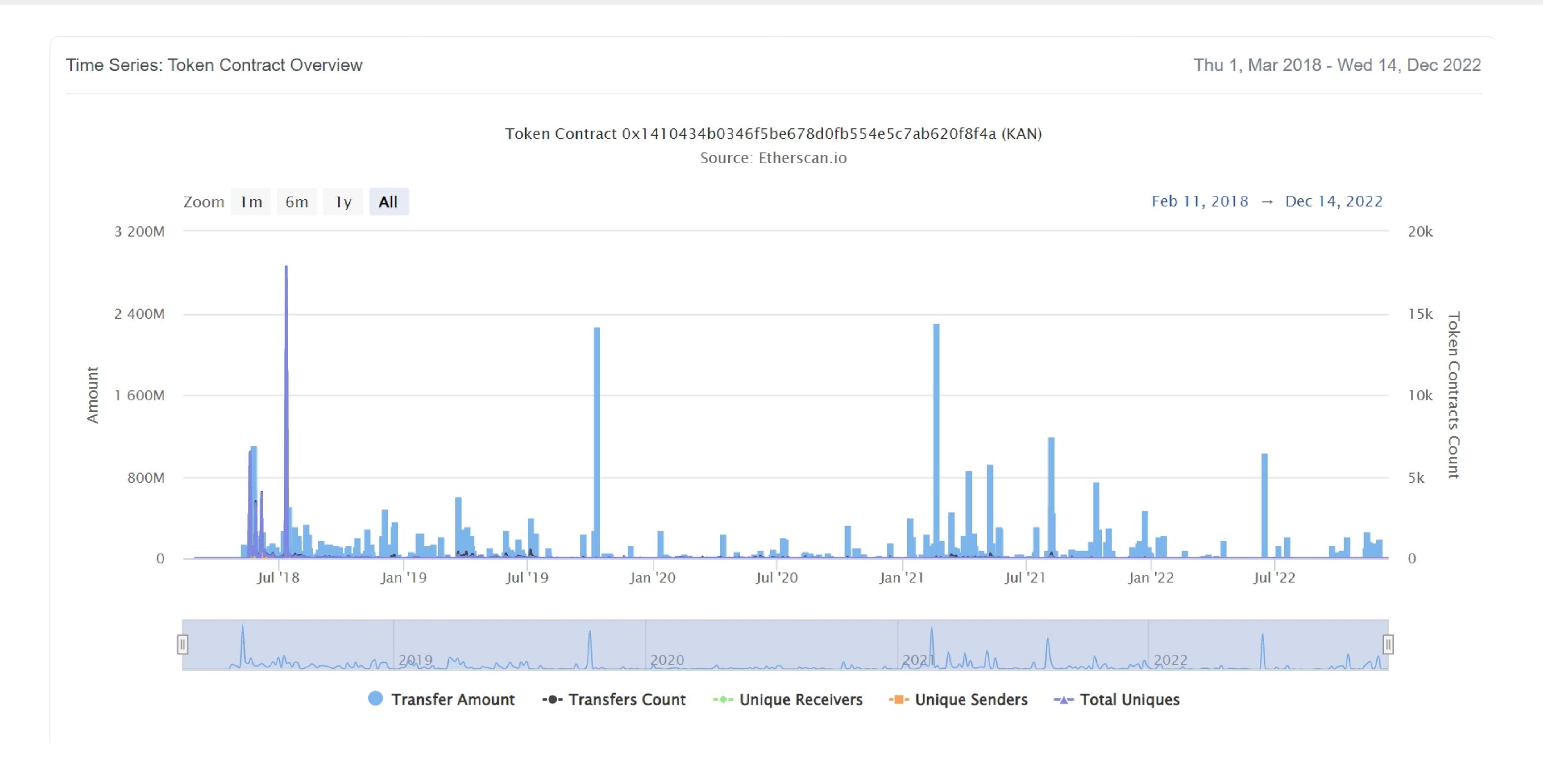
KAN Top 20 Token Holders

(A total of 9,740,015,987.94 tokens held by the top 100 accounts from the total supply of 10,000,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	Null Address: 0x000000	3,710,985,175	37.1099%
2	0xc6618a990b541080c9197e98feb05b71f34e21e8	1,608,250,000	16.0825%
3	0x25ba988b6ee05b5bc6b23aea3947362997038bc7	837,540,554.03000000451411968	8.3754%
4	OKX	767,772,460.628477880394907853	7.6777%
5	Fund: 0x8e0748	416,038,561.410009996	4.1604%
6	0x30741289523c2e4d2a62c7d6722686d14e723851	302,023,062.920475612953863709	3.0202%
7	0xefa73f3858392565e1566b70caa27ce79337a2c3	250,000,000	2.5000%
8	0x5A157DaD76337bf2F0d035aE0f20D36B3cE95DE1	204,799,800	2.0480%
9	0x3b981de0da45b790a0748e7be05cdeaee68fb162	202,891,462.101452312	2.0289%
10	Bitfinex: Hot Wallet	137,532,103.09733046	1.3753%
11	①xe05268f9030a81871e2b91b29a296855076894eb	130,004,005	1.3000%
12	①x265eac8035912aecc793947e6a55cd3284801772	65,615,334.991	0.6562%
13	①x38b78904a6b44f63eb81d98937fc6614870cfbb9	60,517,511.433151969019883505	0.6052%
14	0x8d2fcdf591a085ff68afd1dca6c661da3ed3a3e6	60,168,820.6546956	0.6017%
15	0xdaa9536f1831d7f61b92b3e462d4372c4e378411	51,910,451.928505237	0.5191%
16	0x4e12d702e3851bec7ad691a0f44fa3c332643cdd	50,000,000.000010008	0.5000%
17	0x7773a4c43367d75c714f68fe196edc26d2b14f16	50,000,000	0.5000%
18	0xbab9bcadbe9a5de3b23f781ecbe396d3908073e0	50,000,000	0.5000%
19	0x6d51fdc0c57cbbff6dac4a565b35a17b88c6ceb5	42,727,390.991	0.4273%
20	0xe95d81fc268c9ffd19329db846105d272bddc52d	40,391,355.220120241	0.4039%

KAN Token Distribution

KAN Contract Overview



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Contract functions details

```
+[Lib] SafeMath
    -[Int] mul
    -[Int] div
    -[Int] sub
    -[Int] add
+Ownable
    -[Pub] Ownable
    -[Pub] transferOwnership #
     -modifiers: onlyOwner
+ERC20Basic
    -[Pub] totalSupply
    -[Pub] balanceOf
    -[Pub] transfer
+ERC20 (ERC20Basic)
    -[Pub] allowance
    -[Pub] transferFrom #
    -[Pub] approve #
+BasicToken (ERC20Basic)
    -[Pub] totalSupply
    -[Pub] transfer #
    -[Pub] balanceOf
+StandardToken (ERC20, BasicToken)
    -[Pub] transferFrom #
    -[Pub] approve #
    -[Pub] allowance
    -[Pub] increaseApproval #
    -[Pub] decreaseApproval #
+Pausable (Ownable)
    -[Pub] pause #
     -modifiers: onlyOwner, whenNotPaused
    -[Pub] unpause #
     -modifiers: onlyOwner, whenPaused
```

Contract functions details

```
+PausableToken (StandardToken, Pausable)
    -[Pub] transfer #
     -modifiers: whenNotPaused
    -[Pub] transferFrom #
     -modifiers: whenNotPaused
    -[Pub] approve #
     -modifiers: whenNotPaused
    -[Pub] increaseApproval #
     -modifiers: whenNotPaused
    -[Pub] decreaseApproval#
     -modifiers: whenNotPaused
+IKanCoin (PausableToken)
    -[Pub] releaseTeam
    -[Pub] fund
    -[Pub] releaseFund
    -[Pub] freezedBalanceOf
    -[Pub] burn
+KanCoin (IKanCoin)
    -[Pub] KanCoin #
    -[Pub] releaseTeam #
     -modifiers: onlyOwner
    -[Pub] fund #
     -modifiers: onlyOwner
    -[Pub] releaseFund #
     -modifiers: onlyOwner
    -[Pub] freezedBalanceOf #
    -[Pub] burn #
     -modifiers: onlyOwner
    -[Pub] transfer #
    -[Pub] transferFrom #
($) = 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	Low issue

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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 Issues
 No medium severity issue found.
- Low Severity IssuesTwo 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 ^0.4.17 the contract should contain the following line:

pragma solidity 0.4.18;

2. Old compiler version

Description

Contract has been deployed using too old solidity version.

Recommendation

It is advisable to deploy contract using any of the latest version of solidity.

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Centralization

Owner privileges:

KAN Contract:

This smart contract has some functions which can be executed by the admin (Owner) only. If the admin wallet private key would be compromised, then it would create trouble, as smart contract ownership has not been renounced. Following are Admin functions:

- transferOwnership
- pause
- unpause
- releaseTeam
- fund
- releaseFund
- burn

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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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