

Smart Contract Security Audit Report

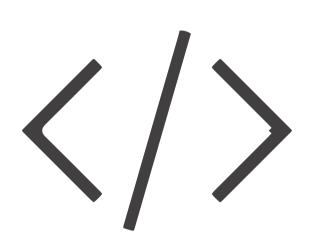
Dabb Doge

December 2022

Audit Details



Audited project Dabb Doge



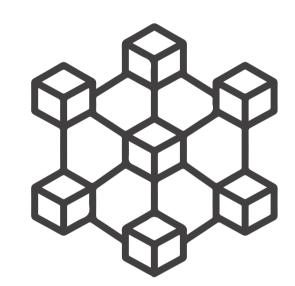
Deployer address

0xe98bc67b6439ac253faa668be1e8c5d3af0fe2a2



Client contacts

Dabb Doge Team



Blockchain

Binance smart chain



Website

Not provided

www.hacksafe.io Page No. 02

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.

Page No. 03 www.hacksafe.io

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.

Page No. 04 www.hacksafe.io

Background

HackSafe was commissioned by Dabb Doge to perform an audit of smart contracts:

• https://bscscan.com/token/0xC638a73969C0F7442Ba8F5Ffda9968434891034B#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.

Page No. 05 www.hacksafe.io

Contract Details

Token contract details for 12.12.2022

Contract deployer

Owner address

address

: MEME Token Type : standardToken Contract name Contract address : 0xC638a73969C0F7442Ba8F5Ffda9968434891034B Total supply : 7,777,777 Token ticker : DDoge Decimals : 18 Token Holders : 11,712 Transactions count : 24,206 Compiler version : v0.8.4+commit.c7e474f2

: 0xe98bc67b6439ac253faa668be1e8c5d3af0fe2a2

: 0xeb4dc0d9a828c6cdc79d8f84c0bf0003987564e4

Page No. 06 www.hacksafe.io

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 1 low.

Page No. 07 www.hacksafe.io

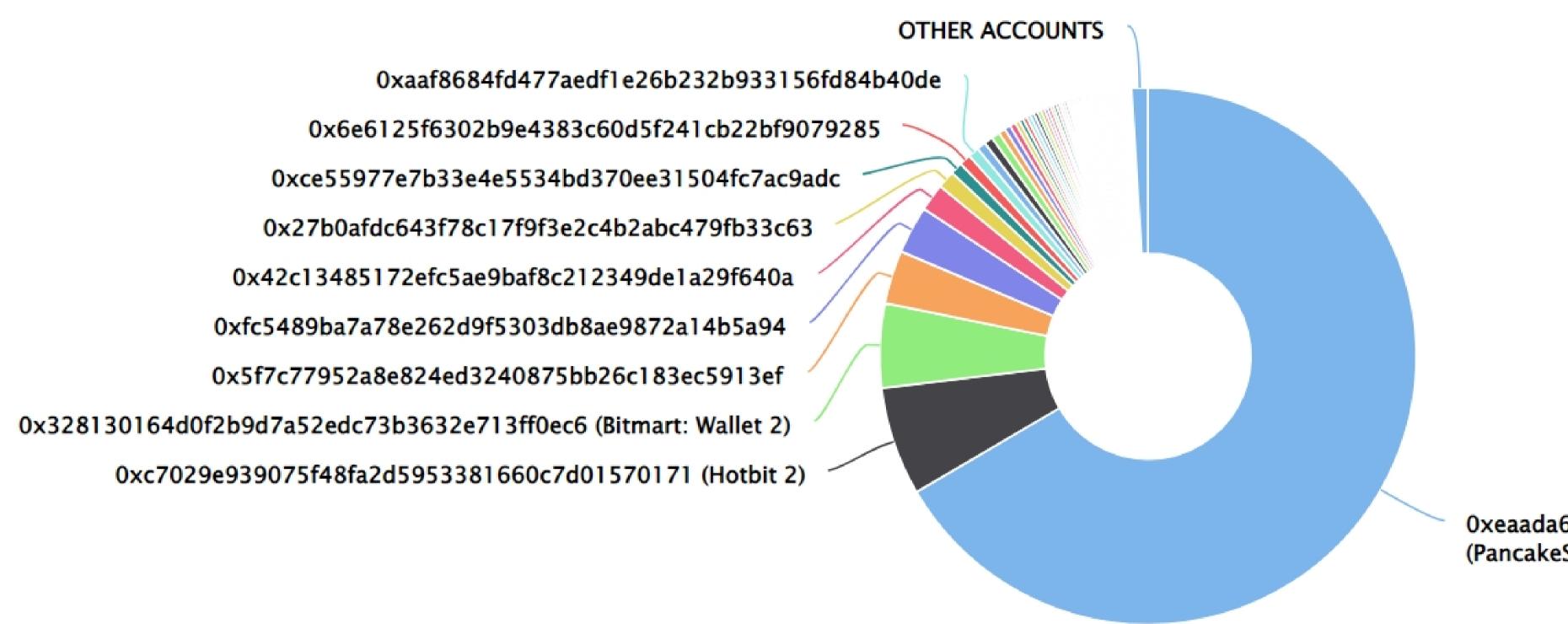
Dabb Doge Token Distribution

The top 100 holders collectively own 99.02% (7,701,896.78 Tokens) of Dabb Doge

☐ Token Total Supply: 7,777,777.00 Token | Total Token Holders: 11,712

Dabb Doge Top 100 Token Holders

Source: BscScan.com



0xeaada674902489871e5752dc51c4a68f629a52c4 (PancakeSwap V2: DDoge 212)

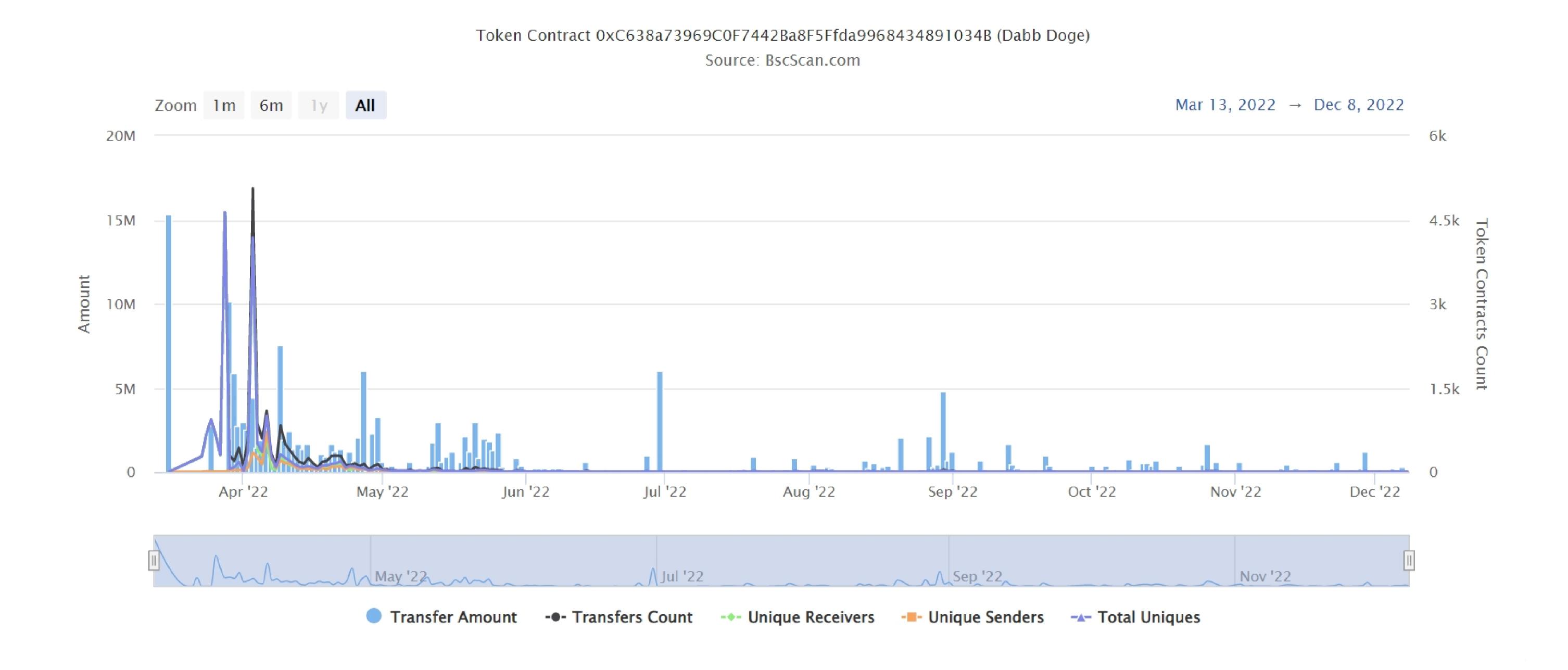
Dabb Doge Top 20 Token Holders

(A total of 7,701,896.78 tokens held by the top 100 accounts from the total supply of 7,777,777.00 token)

Rank	Address	Quantity (Token)	Percentage
1	PancakeSwap V2: DDoge 212	5,178,110.828648458068655431	66.5757%
2	Hotbit 2	507,603.380725735029305484	6.5263%
3	Bitmart: Wallet 2	395,041.12073801304378747	5.0791%
4	0x5f7c77952a8e824ed3240875bb26c183ec5913ef	249,688.732295756966870295	3.2103%
5	0xfc5489ba7a78e262d9f5303db8ae9872a14b5a94	222,527.4039	2.8611%
6	0x42c13485172efc5ae9baf8c212349de1a29f640a	128,297.405130556431116236	1.6495%
7	0x27b0afdc643f78c17f9f3e2c4b2abc479fb33c63	83,673.454094315119291559	1.0758%
8	0xce55977e7b33e4e5534bd370ee31504fc7ac9adc	57,206.927990468829782403	0.7355%
9	0x6e6125f6302b9e4383c60d5f241cb22bf9079285	54,252.496469272030664801	0.6975%
10	0xaaf8684fd477aedf1e26b232b933156fd84b40de	50,224.018222344194279438	0.6457%
11	0xa645464130826eb59b1cda854fe06c00914e517d	42,684.997375082949914386	0.5488%
12	0x135b68c923f475ace871042b5b1a519869bc1a2c	40,455.335389214939208777	0.5201%
13	0xa0392f2428bbd83d99423567d16a731fb7f2cc4f	39,285.614938148557178569	0.5051%
14	0x2edbed9b06cb0e3c6638c07712c33799f3961c56	32,055.94250727037186678	0.4121%
15	0xb6ce629cbd3d9693b11078beb4a70db7cb6456e6	29,055.153871508265803647	0.3736%
16	0x930bb4724d1c18de996a3352fd471b497e88f1e8	26,593.169225957238897248	0.3419%
17	0x90d22d14dc4318774103cafde9a58e9afbbc35d1	21,545.109916	0.2770%
18	0x07f2196946e0996895aa59b9a3b02635f99ea9bf	20,086.831965401783784553	0.2583%
19	0xe1b0fe879c9cc045bce42715a80090f38bf6770e	18,680.031867174021482204	0.2402%
20	0x534cef1a3884f5dfc0d7deb74d9e14c22324403a	18,536.00643403978254609	0.2383%

Dabb Doge Token Distribution

Dabb Doge Contract Overview



Page No. 08 www.hacksafe.io

Contract functions details

```
+[Int] IERC20
    -[Ext] totalSupply
    -[Ext] balanceOf
    -[Ext] transfer
    -[Ext] allowance
    -[Ext] approve
    -[Ext] transferFrom
+[Int] IERC20Metadata (IERC20)
    -[Ext] name
    -[Ext] symbol
    -[Ext] decimals
+Context
    -[Int] _msgSender
    -[Int] _msgData
+[Lib] SafeMath
    -[Int] add
    -[Int] sub
    -[Int] sub
    -[Int] mul
    -[Int] div
    -[Int] div
    -[Int] mod
    -[Int] mod
+Ownable (Context)
    -<constructor>
    -[Pub] owner
    -[Pub] renounceOwnership #
     -modifiers: onlyOwner
    -[Pub] transferOwnership #
     -modifiers: onlyOwner
    -[Pub] geUnlockTime
    -[Pub] lock #
     -modifiers: onlyOwner
    -[Pub] unlock #
```

Contract functions details

```
+standardToken (Context, IERC20, IERC20Metadata,Ownable)
    -<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] _beforeTokenTransfer #
($) = payable function
```

= non-constant function

Page No. 09 www.hacksafe.io

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

Page No. 10 www.hacksafe.io

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.

Page No. 11 www.hacksafe.io

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 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 ^0.8.4 the contract should contain the following line:

pragma solidity 0.8.4;

Page No. 12 www.hacksafe.io

Centralization

Owner privileges:

- Dabb Doge Token Contract:
 - Owner can transfer/renounce ownership.
 - Owner can lock the contract for owner for the amount of time provided

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
- renounceOwnership
- lock

Page No. 13 www.hacksafe.io

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.

Page No. 14 www.hacksafe.io