

Smart Contract Security Audit Report

Sharks Stake

December 2022

Audit Details

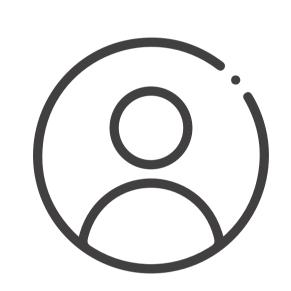


Audited project

Sharks Stake

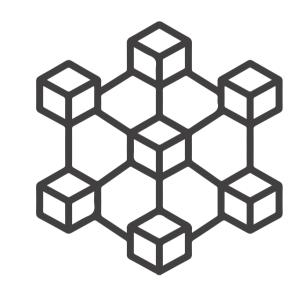


Deployer address0xb85522319e3e49315aad2dd487db46a601d30bea



Client contacts

Sharks Stake 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 Sharks Stake to perform an audit of smart contracts:

• https://bscscan.com/token/0x2eD8ae766fcf20f582011221F7f1d1F736eE44D0#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

Token Type	: DEFI
Contract name	: SharksStake
Contract address	: 0x2eD8ae766fcf20f582011221F7f1d1F736eE44D
Total supply	: 50,000,000,000,000
Token ticker	: Sharks
Decimals	: 0
Token Holders	: 13
Transactions count	: 91
Compiler version	: v0.5.10+commit.5a6ea5b1
Contract deployer address	: 0xb85522319e3e49315aad2dd487db46a601d30bea
Owner address	: 0xb85522319e3e49315aad2dd487db46a601d30bea

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

Sharks Stake Token Distribution

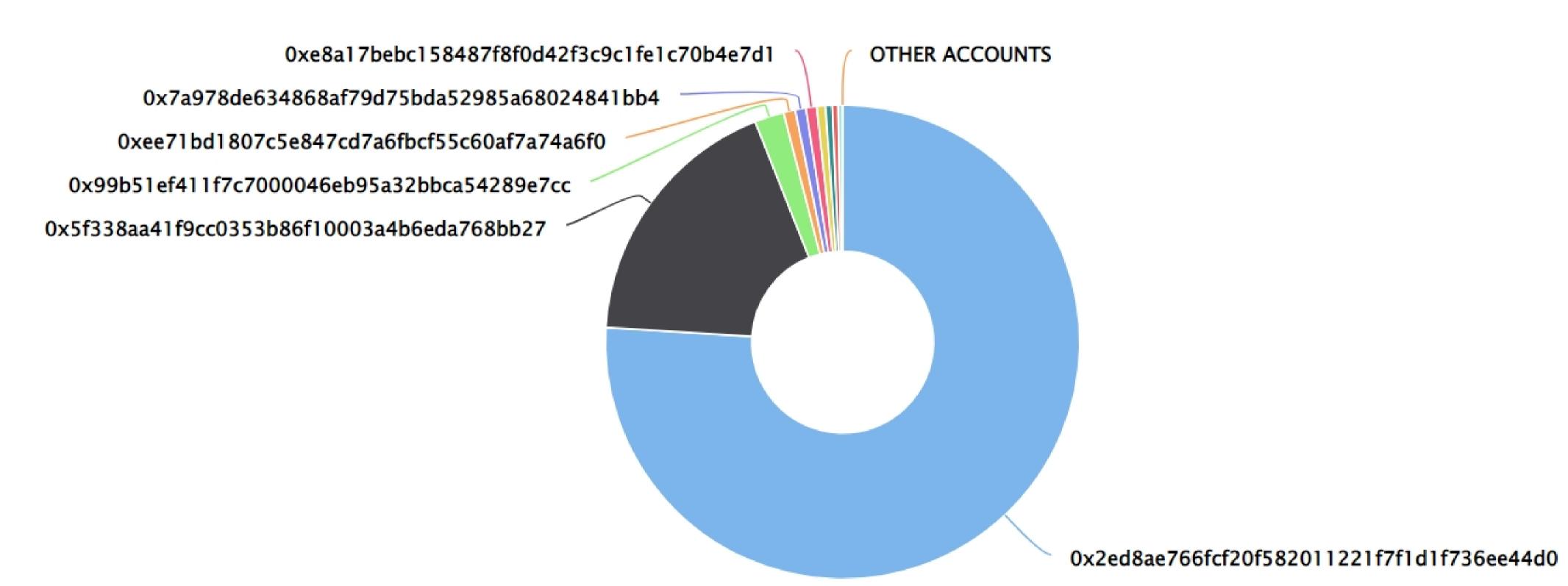
The top 100 holders collectively own 100.00% (50,000,000,000,000,000.00 Tokens) of Sharks Stake

Token Total Supply: 50,000,000,000,000,000.00 Token |

Total Token Holders: 13

Sharks Stake Top 100 Token Holders





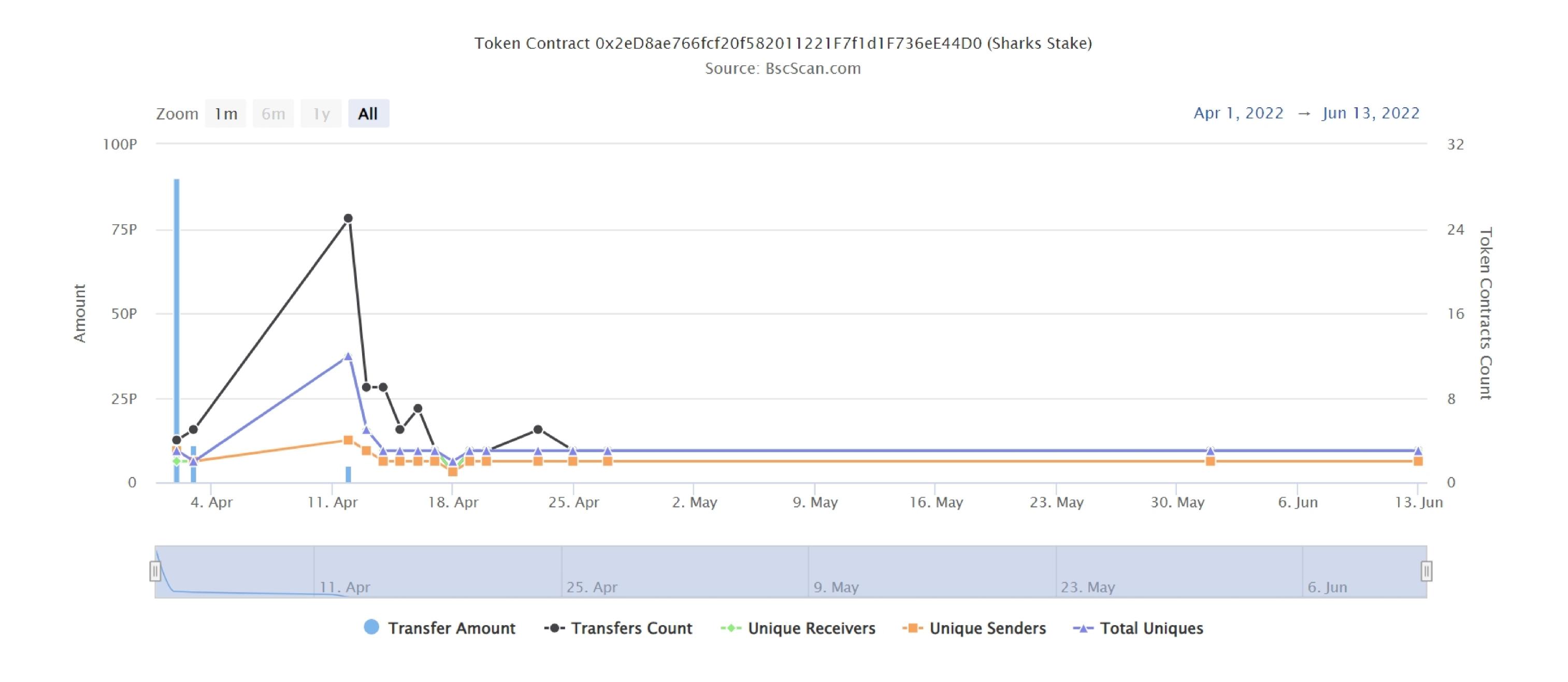
Sharks Stake Top 13 Token Holders

(A total of 50,000,000,000,000,000,000.00 tokens held by the top 100 accounts from the total supply of 50,000,000,000,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	①x2ed8ae766fcf20f582011221f7f1d1f736ee44d0	37,995,807,950,000,000	75.9916%
2	■ 0x5f338aa41f9cc0353b86f10003a4b6eda768bb27	8,999,999,986,110,970	18.0000%
3	0x99b51ef411f7c7000046eb95a32bbca54289e7cc	1,000,111,049,999,100	2.0002%
4	0xee71bd1807c5e847cd7a6fbcf55c60af7a74a6f0	401,910,000,000,000	0.8038%
5	0x7a978de634868af79d75bda52985a68024841bb4	369,260,000,000,000	0.7385%
6	0xe8a17bebc158487f8f0d42f3c9c1fe1c70b4e7d1	360,080,000,000,000	0.7202%
7	0x1642b252072c8bc72704e0bdb5ab025453eaa019	299,560,000,000,000	0.5991%
8	0xfd0a408963d932601d4fbee9e950749862496c9c	230,090,000,000	0.4602%
9	0x46d9be0135135f19d369766905b7486324d321e5	200,000,000,000	0.4000%
10	0x2c39a2797347e919a39ae38fc2030e39664934cb	139,690,000,000	0.2794%
11	0x691e66124dde33b0c21bc5ada9548b4455596e25	2,491,008,689,931	0.0050%
12	0xb4b875248758efa90b9915e642b96ad4b2eb3314	1,000,000,000	0.0020%
13	0xb85522319e3e49315aad2dd487db46a601d30bea	5,200,000	0.0000%

Sharks Stake Token Distribution

Sharks Stake Contract Overview



Page No. 08 www.hacksafe.io

Contract functions details

```
+[Lib] SafeMath
    -[Int] add
    -[Int] sub
    -[Int] mul
    -[Int] div
+BEP20Interface
    -[Pub] totalSupply
    -[Pub] balanceOf
    -[Pub] allowance
    -[Pub] transfer
    -[Pub] approve
    -[Pub] transferFrom
+ApproveAndCallFallBack
    -[Pub] receiveApproval
+Owned
    -[Pub] <constructor>
    -[Pub] transferOwnership #
     -modifiers: onlyOwner
    -[Pub] acceptOwnership #
+TokenBEP20 (BEP20Interface, Owned)
    -[Pub] <constructor>
    -[Pub] totalSupply
    -[Pub] balanceOf
    -[Pub] transfer #
    -[Pub] approve #
    -[Pub] transferFrom #
    -[Pub] allowance
    -[Pub] approveAndCall
    -[Ext] $
+SharksStake (TokenBEP20)
    -[Pub] getAirdrop #
    -[Pub] tokenSale $
    -[Pub] viewAirdrop #
    -[Pub] viewSale
    -[Pub] startAirdrop #
```

Contract functions details

```
-modifiers: onlyOwner
-[Pub] startSale #
-modifiers: onlyOwner
-[Pub] clearETH #
-modifiers: onlyOwner

($) = 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.	
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 IssuesNo 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 >=0.5.10 the contract should contain the following line:

pragma solidity 0.5.10;

Page No. 12 www.hacksafe.io

Centralization

Owner privileges:

Sharks Stake 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
- startAirDrop
- startSale
- clearETH

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