

Smart Contract Security Audit Report

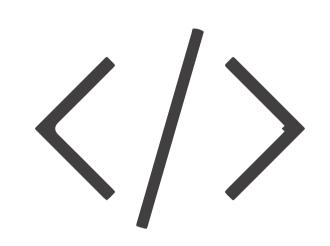
HASHGARD

December 2022

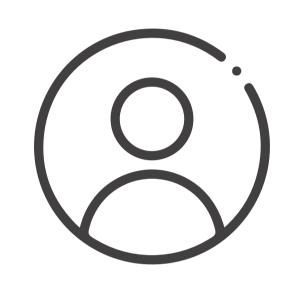
Audit Details



Audited project HASHGARD

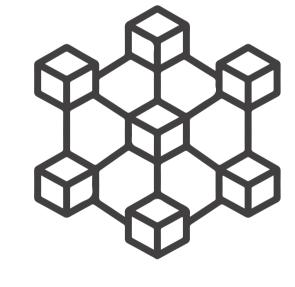


Deployer address0x1712fb5ad117f249a4fc88f5a11771987c72811e



Client contacts

HASHGARD 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 HASHGARD to perform an audit of smart contracts:

• https://etherscan.io/token/0x5c64031c62061865e5fd0f53d3cdaef80f72e99d#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 19.12.2022

Contract name : HashGardToken

Token Type

Contract address : 0x5c64031C62061865E5FD0F53d3CDaeF80f72E99D

Total supply : 100,000,000,000

: DEFI

Token ticker : GARD

Decimals : 18

Token Holders : 10,579

Transactions count : 52,230

Compiler version : v0.4.24-nightly.2018.4.23+commit.c7ee2ca0

Contract deployer

address

: 0x1712fb5ad117f249a4fc88f5a11771987c72811e

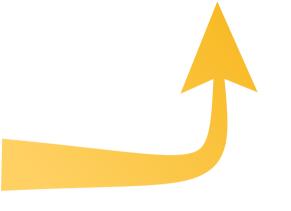
Owner address : No owner

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Audit Summary

According to the standard audit assessment, Customer`s solidity smart contracts are **"Well Secure".** This token contract does not contain owner control, which do 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 0 low.

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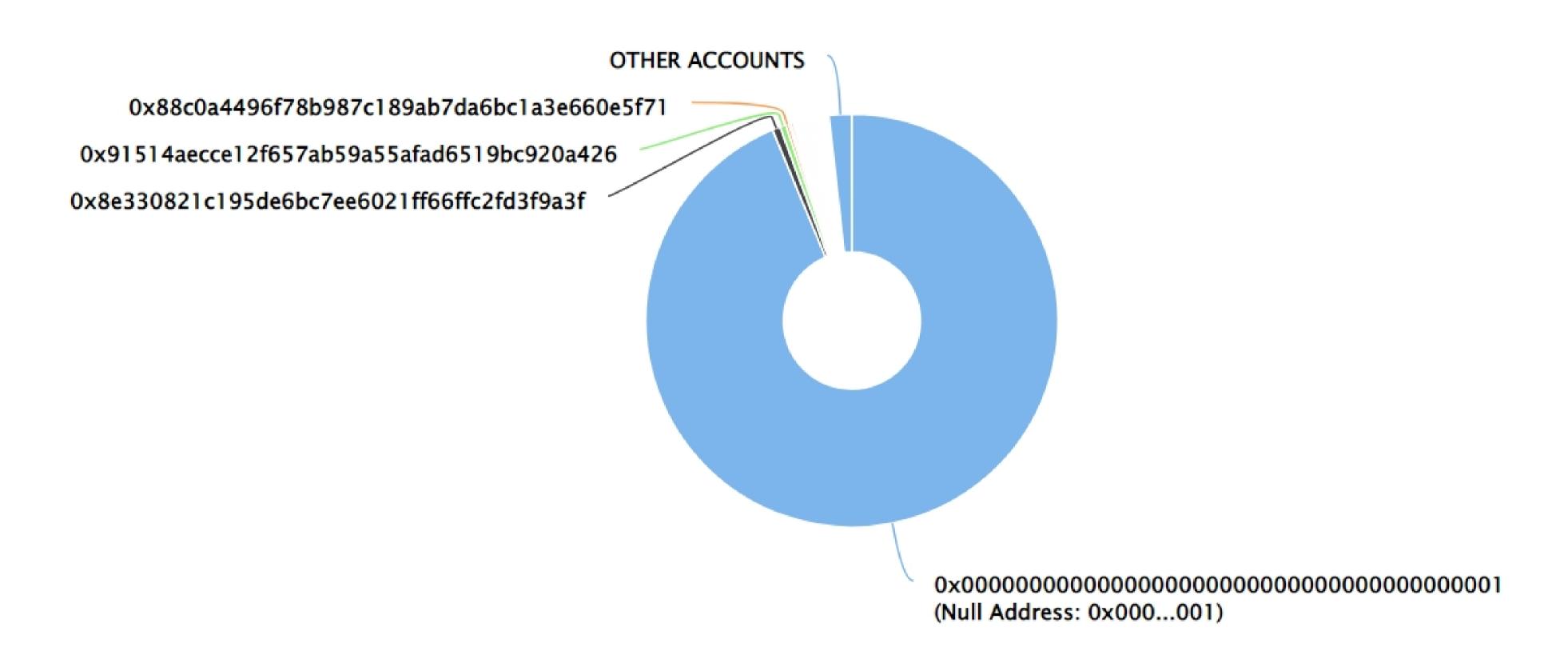
HASHGARD Token Distribution

The top 100 holders collectively own 98.23% (98,225,028,358.14 Tokens) of HASHGARD

♥ Token Total Supply: 100,000,000,000.00 Token | Total Token Holders: 10,579

HASHGARD Top 100 Token Holders

Source: Etherscan.io



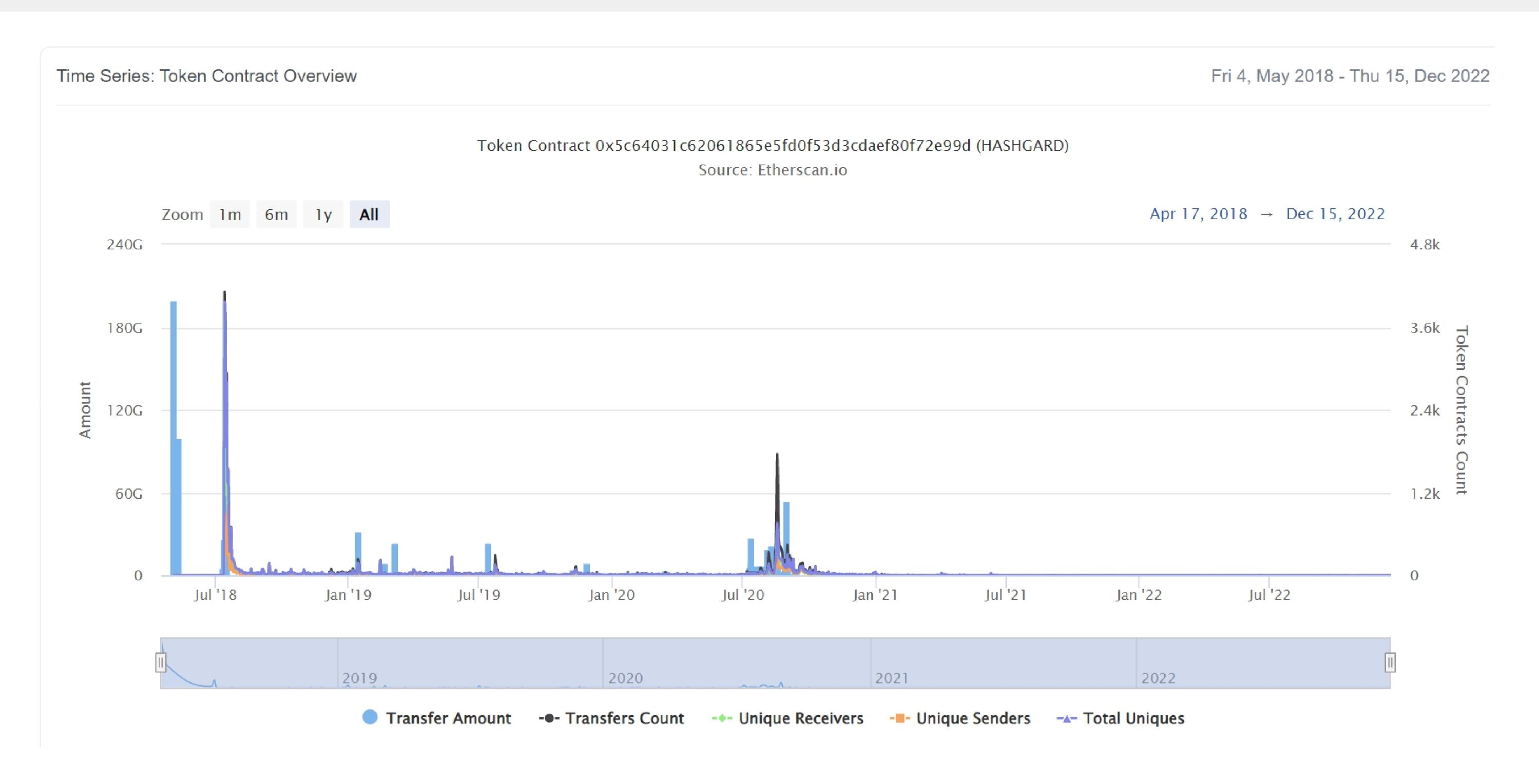
HASHGARD Top 20 Token Holders

(A total of 98,225,028,358.14 tokens held by the top 100 accounts from the total supply of 100,000,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	Null Address: 0x000001	93,718,833,524.940738204786938871	93.7188%
2	0x8e330821c195de6bc7ee6021ff66ffc2fd3f9a3f	625,000,000	0.6250%
3	(a) 0x91514aecce12f657ab59a55afad6519bc920a426	461,460,293.38281607678439735	0.4615%
4	0x88c0a4496f78b987c189ab7da6bc1a3e660e5f71	250,000,000	0.2500%
5	0x5bcc3cc8aa860e3277144b8245a54143b32536ce	187,500,000	0.1875%
6	Bibox	185,805,431.0665	0.1858%
7	0x72e5263ff33d2494692d7f94a758aa9f82062f73	163,423,201.927071884366047943	0.1634%
8	0x1767c567c91cc0f7edfcb50fb460e6639086dab8	125,000,000	0.1250%
9	0x51f89a0140df7e1c5c07893e0323383275a66d9f	125,000,000	0.1250%
10	0x6df9a70f8b809f827a6f32709c38de5db689322e	125,000,000	0.1250%
11	0x9a8b0c38d911d0f0fb34ac6ab1ea365c50959453	124,999,900	0.1250%
12	0xe487c541c2781e93547eb9b3c77dd6528047671a	85,000,000	0.0850%
13	0x186965c44f7771c883b14bc691968e6ba52e8182	82,500,000	0.0825%
14	0x89da5a9fdc5cc2c1d4ae0add9f2feb91682e5b4d	69,459,113.8	0.0695%
15	Null Address: 0x00dEaD	65,905,031.041789299243284806	0.0659%
16	0xd8f78999c06c184a9f82fe918c8adb506647d1d3	62,500,000	0.0625%
17	0xe2dd62731bbf49bf5410eee11739e5d14917aab3	62,500,000	0.0625%
18	0x4253236fad7f0e1c13b7f9d519fdc5919318d852	62,500,000	0.0625%
19	0x073c542f502a27307be195b9f6df50e6ee2ff909	62,500,000	0.0625%
20	■ IDEX	58,919,828.117204995150804734	0.0589%

HASHGARD Token Distribution

HASHGARD Contract Overview



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Contract functions details

```
+[Lib] SafeMath
    -[Int] mul
    -[Int] div
    -[Int] sub
    -[Int] add
+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 #
+HashGardToken (StandardToken)
    -[Pub] HashGardToken #
($) = payable function
# = non-constant function
```

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Issues Checking Status

No.	Title	Status
1.	Unlocked Compiler Version	Passed
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

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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 IssuesNo low severity issue found.

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Conclusion

Smart contract contains no 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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