

Smart Contract Security Audit Report

Qurito

August 2022



Audit Details



Audited project

Qurito



Deployer address

0x3eB3eE1eA7B5942fe395D0Ec82d139018D2527b9



Client contacts

Qurito Team



Blockchain

Ethereum



Website

https://qurito.io/

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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 Qurito to perform an audit of smart contracts:

• https://etherscan.io/address/0x076a93a40bf9e0d21d3f75dd1e0584ddbe0f9d1a#code

The purpose of the audit was to achieve the

- Ensutre 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 31.08.2022

: ERC20 Token Type : Qurito Contract name : 0x076a93a40Bf9E0D21d3F75dd1E0584DdbE0f9D1a Contract address : v0.4.20-nightly.2017.12.20+commit.efc198d5 Compiler version Total supply : 600,000,000 : QURO Token Ticker Decimals : 18 Token Holders : 1,691 Transactions count : 1,691 Contract deployer : 0x3eB3eE1eA7B5942fe395D0Ec82d139018D2527b9 address

: No Owner

Owner address

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Social profiles

Twitter profile : https://twitter.com/QuritoOfficial

Coinmarketcap Profile : https://coinmarketcap.com/currencies/qurito/

Telegram Profile : https://t.me/Qurito

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Audit Summary

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

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 and some very low-level issues. These issues are not critical ones.

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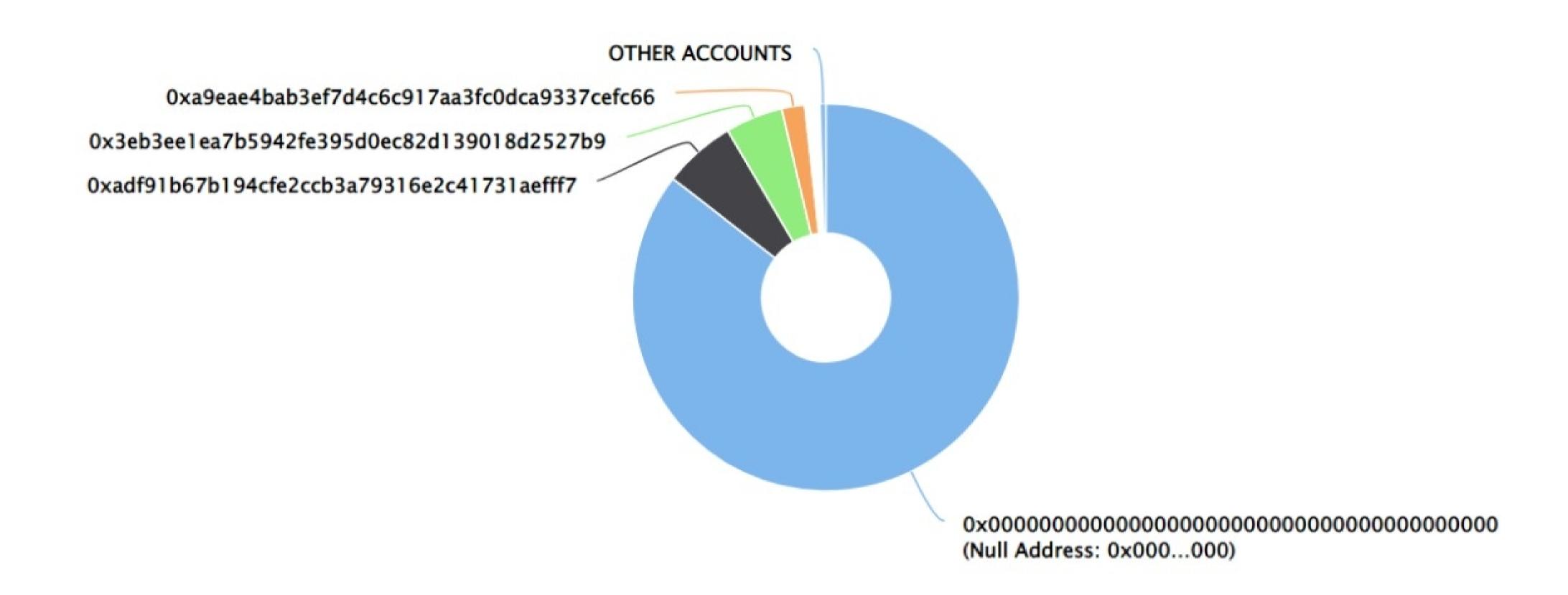
Qurito Token Distribution

The top 100 holders collectively own 99.52% (597,103,201.65 Tokens) of Qurito

▼ Token Total Supply: 600,000,000.00 Token | Total Token Holders: 1,691

Qurito Top 100 Token Holders

Source: Etherscan.io



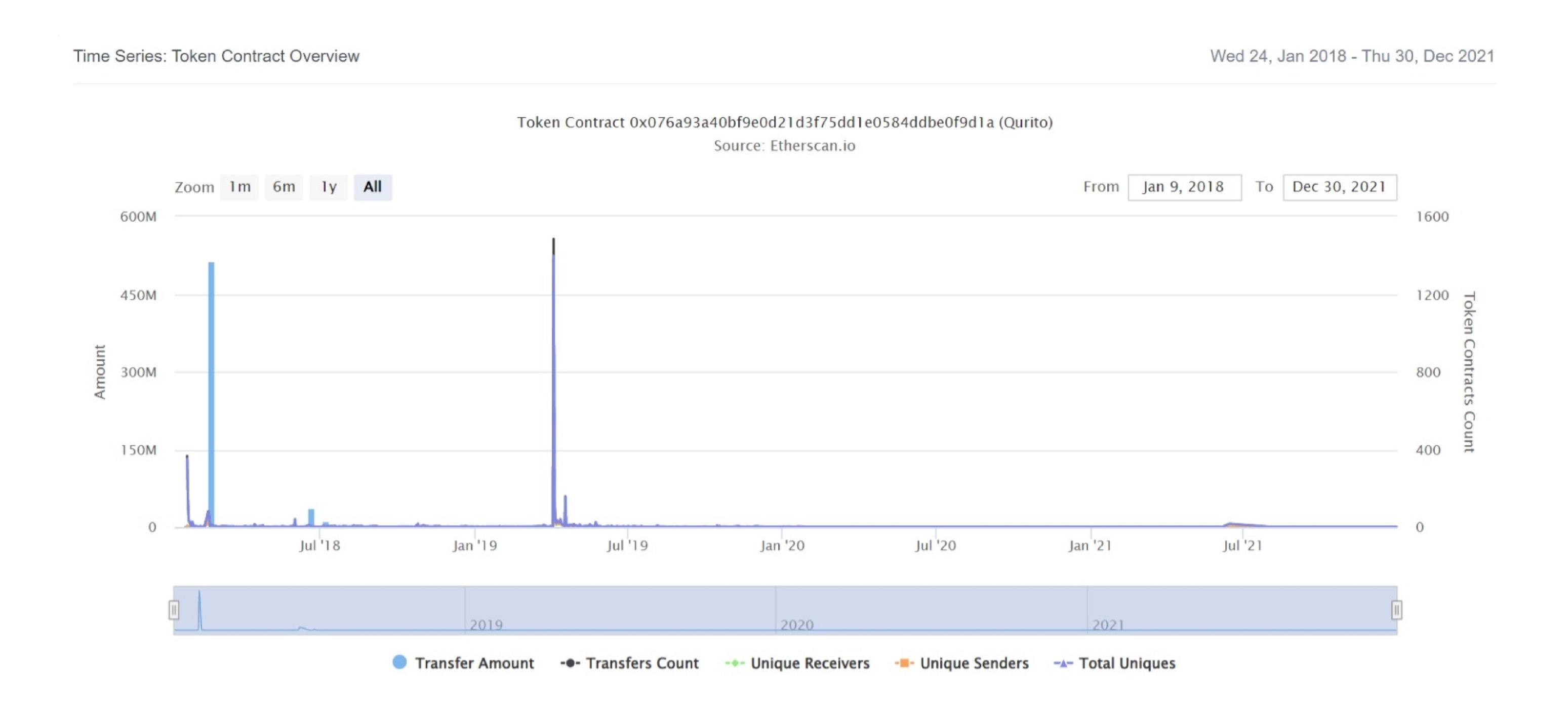
Qurito Top 20 Token Holders

(A total of 597,103,201.65 tokens held by the top 100 accounts from the total supply of 600,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	Null Address: 0x000000	513,060,868.000000000513060868	85.5101%
2	0xadf91b67b194cfe2ccb3a79316e2c41731aefff7	36,208,834.198	6.0348%
3	0x3eb3ee1ea7b5942fe395d0ec82d139018d2527b9	28,730,056.799999999486939132	4.7883%
4	0xa9eae4bab3ef7d4c6c917aa3fc0dca9337cefc66	11,592,000	1.9320%
5	0x00822134c6c55cee1d981cf2194754deba1db064	630,000	0.1050%
6	0x29fd34150a0b171b0496553947c6fbf3580a17b4	510,409.61953065	0.0851%
7	0x5c35435c27449afbd559bb7d0be85cec38c26c07	469,876.998	0.0783%
8	0x226ce8219207e773c0768a699bf7982dbea754ad	400,000	0.0667%
9	0x29bf899455debf736f73c913bbe26f5ec93d0579	395,998.883	0.0660%
10	0x6863d6250ef6fc0fb18c71d300742e72c8e5140a	307,960	0.0513%
11	0x0cc244b9d7be1bdb518d82b355302ebeffc1be41	300,000	0.0500%
12	0x282258769a519582dee881ecc9a9e744d7d7b59c	274,686	0.0458%
13	0xee61f5fb0db81d3a09392375ee96f723c0620e07	272,699.403146950001	0.0454%
14	0x859624815ac4e9d65bf51496db01b11b6ed4de32	267,127.00040945998	0.0445%
15	0x4e36cd7177751d806933a418ca8b5643d062f593	193,980	0.0323%
16	0x3a565ea133b7ee11ab9cf9d03bde38af1fdd1080	192,105	0.0320%
17	0x5a7fb70e55af8a6a2caed12941ab7a52ddf50ba2	191,747	0.0320%
18	0x453dcab3147c5114058a5e213dfe595995667856	151,828.25	0.0253%
19	0x430e1dd1ab2e68f201b53056ef25b9e116979d9b	148,888.46258993	0.0248%
20	0x111214c8e36c91e2faa326fbcb49f406b68d221c	120,680	0.0201%

Qurito Token Distribution

Qurito Contract Overview



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Contract functions details

- + Token
 - balanceOf
 - transfer
 - transferFrom
 - approve
 - allowance
- + StandardToken (Token)
 - transfer #
 - transferFrom #
 - balanceOf
 - approve
 - allowance
- + HumanStandardToken (StandardToken)
 - HumanStandardToken
 - approveAndCall
- + Qurito (HumanStandardToken)
- (\$) = 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 Issues

No high severity issue found.

Medium Severity Issues

No medium severity issues found.

Low Severity Issues

Two low severity issue found.

1. 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.

2. 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 0.4.8 the contract should contain the following line:

pragma solidity 0.4.20;

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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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